

National Curriculum Statement (NCS)

*Curriculum and Assessment
Policy Statement*



*Foundation Phase
Grade R*



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

INKCAZELO YEPOLISI YEKHARITYHULAM NOKUHLOLA

IBANGA LABAQALAYO (R)

MATHEMATIKA

DISCLAIMER

In view of the stringent time requirements encountered by the Department of Basic Education to effect the necessary editorial changes and layout to the Curriculum and Assessment Policy Statements and the supplementary policy documents, possible errors may occur in the said documents placed on the official departmental websites.

There may also be vernacular inconsistencies in the language documents at Home-, First and Second Additional Language levels which have been translated in the various African Languages. Please note that the content of the documents translated and versioned in the African Languages are correct as they are based on the English generic language documents at all three language levels to be implemented in all four school phases.

If any editorial, layout or vernacular inconsistencies are detected, the user is kindly requested to bring this to the attention of the Department of Basic Education.

E-mail: capslangcomments@dbe.gov.za or fax (012) 328 9828

Department of Basic Education

222 Struben Street
Private Bag X895
Pretoria 0001
South Africa
Tel: +27 12 357 3000
Fax: +27 12 323 0601

120 Plein Street Private Bag X9023
Cape Town 8000
South Africa
Tel: +27 21 465 1701
Fax: +27 21 461 8110
Website: <http://www.education.gov.za>

© 2011 Department of Basic Education

ISBN: 978-1-4315-0438-1

Design and Layout by: Ndabase Printing Solution

Printed by: Government Printing Works

FOREWORD BY THE MINISTER



Our national curriculum is the culmination of our efforts over a period of seventeen years to transform the curriculum bequeathed to us by apartheid. From the start of democracy we have built our curriculum on the values that inspired our Constitution (Act 108 of 1996). The Preamble to the Constitution states that the aims of the Constitution are to:

- heal the divisions of the past and establish a society based on democratic values, social justice and fundamental human rights;
 - improve the quality of life of all citizens and free the potential of each person;
 - lay the foundations for a democratic and open society in which government is based on the will of the people and every citizen is equally protected by law; and
- build a united and democratic South Africa able to take its rightful place as a sovereign state in the family of nations.

Education and the curriculum have an important role to play in realising these aims.

In 1997 we introduced outcomes-based education to overcome the curricular divisions of the past, but the experience of implementation prompted a review in 2000. This led to the first curriculum revision: the *Revised National Curriculum Statement Grades R-9* and the *National Curriculum Statement Grades 10-12* (2002).

Ongoing implementation challenges resulted in another review in 2009 and we revised the *Revised National Curriculum Statement* (2002) to produce this document.

From 2012 the two 2002 curricula, for *Grades R-9* and *Grades 10-12* respectively, are combined in a single document and will simply be known as the *National Curriculum Statement Grades R-12*. The *National Curriculum Statement for Grades R-12* builds on the previous curriculum but also updates it and aims to provide clearer specification of what is to be taught and learnt on a term-by-term basis.

The *National Curriculum Statement Grades R-12* accordingly replaces the Subject Statements, Learning Programme Guidelines and Subject Assessment Guidelines with the

- (a) Curriculum and Assessment Policy Statements (CAPS) for all approved subjects listed in this document;
- (b) *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R-12*; and
- (c) *National Protocol for Assessment Grades R-12*.

MRS ANGIE MOTSHEKGA, MP
MINISTER OF BASIC EDUCATION

IZIQULATHO

ISAHLUKO SOKU- 1: INTSHAYELELO NEMVELAPHI.....	3
1.1 IMvelaphi	3
1.2 AmaGqabantshintshi	3
1.3 IiNjongo eziPhangaleleyo zeKharityhulam yoMzantsi Afrika.....	4
1.4 UKWABIWA KWEXESHA	6
1.4.1 IsiGaba esisisiSeko.....	6
1.4.2 IsiGaba esiPhakathi	6
1.4.3 IsiGaba esiPhezulu	7
1.4.4 IBanga 10 - 12.....	7
ISAHLUKO SESI- 2: INKCAZELO, IINJONGO, IZAKHONO NOMXHOLO	8
2.1 Intshayelelo.....	8
2.2 Yintoni iMathematika?	8
2.3 Iinjongo ezingundoqo	8
2.4 Izakhono ezingundoqo	9
2.5 Iinkalo zemixholo ekugqalwe kuyo	9
2.6 Ulwabiwo lweenkalo zemixholo	11
2.7 IMathematika kwisiGaba esisisiSeko	11
2.7.1 . Izikhokelo zolawulo lweklasi	12
2.7.2 . Abafundi abaneengxaki zokufunda kwiMathematika.....	13
2.7.3 . Imisebenzi yokubala ngentloko	13
2.8 IBanga labaQalayo(R)	14
2.9 Izixhobo ezicetyiswayo: igumbi lesiGaba esisisiSeko	17
ISAHLUKO SESI- 3: INKCAZELO YOMXHOLO	18
3.1 Intshayelelo.....	18
3.2 Inkcazelo yomxholo ukubonisa inkqubela-phambili	18
• Amanani, ii-opareyshini nolwalamamo.....	19
• Iipateni, isiphumo sentsebenziswamo yamanani / ifankshini ne-aljibra	26
• Isithuba nemilo (ijiyometri)	27
• Umlinganiselo.....	30
• Indlela yokusebenza ngolwazi oluqokelelweyo.....	35

3.3	Inkcazelo ngomxholo.....	37
3.4	Ukulandelelanisa nesantya somxholo	38
3.5	Amanqaku angcaciso	60
ISAHLUKO 4: UHLOLO		262
4.1	Intshayelelo	262
4.2	Ukuhlola okungekho seSikweni okanye kwemihla ngemihla	262
4.3	Ukuhlola okuSesikweni	262
4.4	Inkqubo yokuHlola okuSesikweni	263
4.5	UkuRekhodisha nokunika Ingxelo ngomsebenzi.....	263
4.6	Ulwazi gabalala.....	264
4.7	Imizekelo yeetshekilisti zohlolo olusesikweni ezicetyiswayo	264

ISAPHLUKO SOKU-1: INTSHAYELELO NEMVELAPHI

1.1 IMVELAPHI

INkcazelo yeKharithyulam yeSizwe yeBanga R - 12 (NKS) icacisa ipolisi yekharithyulam nokuhlola ezikolweni.

Ukuphucula ukusetyenziswa kwayo, iNkcazelo yeKharithyulam yeSizwe ihlaziyiwe, yaye uhlaziyo luya kuqala ukusebenza ngeyoMqungu/ngoJanyuwari 2012. Isifundo ngasinye senzelve uxwebhu olunye lwePolisi yeKharithyulam nokuHlola endaweni yala maxwebhu madala angala: INkcazelo yeKharithyulam yeSizwe, iziKhokelo zeNkqubo yokuFunda kunye neziKhokelo zokuHlola zesiFundo kwiBanga R - 12.

1.2 AMAGQABANTSHINTSHI

- (a) *INkcazelo yeKharithyulam yeSizwe (NKS) yeBanga R - 12 (EyoMqungu/Janyuwari 2012)* imele inkcazelo yepolisi yokufunda nokufundisa kwizikolo zoMzantsi Afrika yaye iquka oku kulandelayo:
- (i) INkcazelo yePolisi yeSizwe yeKharithyulam nokuHlola yesifundo ngasinye kwezo zifundo zivunyiweyo zesikolo;
 - (ii) Uxwebhu lwepolisi oluthi, *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R - 12.*; kunye
 - (iii) Noxwebhu lwepolisi oluthi, *National Protocol for Assessment Grades R - 12 (EyoMqungu/Janyuwari 2010)*.
- (b) Uxwebhu oluthi, *National Curriculum Statement Grades R - 12 (EyoMqungu/Janyuwari 2012)* lungena endaweni yala maxwebhu eNkcazelo yeKharithyulam yeSizwe mabini alandelayo:
- (i) *iRevised National Curriculum Statement Grades R - 9, Government Gazette No. 23406 of 31 May 2002*, kunye
 - (ii) *neNational Curriculum Statement Grade 10 - 12 Government Gazettes, No 25545 of 6 October 2003 and No. 27594 of 17 May 2005*.
- (c) Amaxwebhu enkcazelo yekharithyulam yesizwe ekuthethwe ngawo kwimihlathana (a) no(b) aquka la maxwebhu epolisi alandelayo, aza kuthi aye eyekiswa ngokuyekiswa, engenelewa yi*National Curriculum Statement Grades R - 12 (EyoMqungu/Janyuwari 2012)* ngo2012 - 2014:
- (i) INkcazelo yeKharithyulam yeSizwe yezifundo ngezifundo, isiKhokelo seNkqubo yokuFundisa kunye nesiKhokelo sokuHlola sesiFundo yeBanga R - 9 neyeBanga 10 - 12;
 - (ii) Uxwebhu lwepolisi oluthi, *National Policy on assessment and qualifications for schools in the General Education and Training Band*, olubhengezwe kwi*Government Notice No. 124 ekwiGovernment Gazette No. 29626 of 12 February 2007*;
 - (iii) Uxwebhu lwepolisi oluthi, *the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF)*, olubhengezwe kwi*Government Gazette No.27819 of 20 July 2005*;

- (iv) Uxwebhu lwepolisi oluthi, *An addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), regarding learners with special needs*, olupapashwe kwiGovernment Gazette, No.29466 of 11 December 2006, lufakwe kuxwebhu lwepolisi oluthi, *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R - 12*; kunye
- (v) Uxwebhu lwepolisi oluthi, *An addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), regarding the National Protocol for Assessment (Grades R - 12)*, olubhengezwe kwiGovernment Notice No.1267 in Government Gazette No. 29467 of 11 December 2006.
- (d) Uxwebhu lwepolisi oluthi, *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R - 12*; kunye namacandelo akwiPolisi yeKharithyulam nokuHlola njengoko ebonisiwe kwisahluko sesi-2, 3 nesesi-4 solu xwebhu aqulethe izithethe nemigangatho yeNkcazelo yeKharithyulam yeSizwe yeBanga R - 12. Ngoko ke, olu xwebhu luya kuthi, ngokwecandelo 6A leSouth African Schools Act (uMthetho oLawula iZikolo zaseMzantsi Afrika), ka1996 (uMthetho wama-84 ka1996,) lwenze isiseko sokuxhobisa umPhathiswa weMfundo esisisiSeko ukuba akwazi ukubeka awona manqanaba aphantsi eziphumo nemigangatho, ngokunjalo neenkqubo nemigaqo yokuhlola inkqubela phambili yabafundi, manqanaba lawo za kusebenza kwizikolo zikaRhulumente nezabucala.

1.3 IINJONGO EZIPHANGALELEYO ZEKHARITYHULAM YOMZANTSI AFRIKA

- (a) *INkcazelo yeKharithyulam yeSizwe yeBanga R - 12* inika isikhokelo kulwazi, izakhono nezithethe ezinokufundwa ezikolweni zaseMzantsi Afrika. Le kharithyulam ijonge ukuqinisekisa ukuba abafundi bafumana ulwazi nezakhono ngeendlela ezihambelana nobomi babo bemihla ngemihla. Kungoko ke le kharithyulam ikhuthaza uluvo lokusebenzisa kakhulu iimeko zalapha, kodwa ibe ikwayise iso nemiba ebalulekileyo yehlabathi jikelele.
- (b) *INkcazelo yeKharithyulam yeSizwe yeBanga R - 12* yenza oku kulandelayo:
- Ixhobisa abafundi ngolwazi, izakhono nezithethe eziya kubanceda ukuba bakwazi ukuzimela nokuthabatha inxaxheba ekuhlaleni njengabemi belizwe elikhululekileyo; nokuba bavela kweyiphi imo yezentlalo, uhlanga, isini, bekhangeleka njani ngokomzimba okanye bekuliphi inqanaba lengqiqo;
 - Ivulela abafundi amathuba okuya kwimfundo ephakamileyo;
 - Incedisa abafundi ukuba bakwazi ukuphuma kumaziko emfundo baye kumaziko omsebenzi; yaye
 - Inika abaqeshi umfanekiso ocacileyo ngobuchule nolwazi abanalo abafundi.
- (c) *INkcazelo yeKharithyulam yeSizwe yeBanga R - 12* isekelwe phezu kwale mithetho-siseko ilandelayo:
- *Ukuphuculwa kwezentlalo*: ukuqinisekisa ukuba kuyalungiswa ukungalingani kwezemfundo okwabangelwa lixesha lobandlululo, nokuba bonke abemi banikwa amathuba emfundo alinganayo;
 - *Ukufunda ngokubandakanyeka kusetyenziswa ingqiqo*: ukukhuthaza indlela yokufundisa efuna abafundi ukuba bathathe inxaxheba bebonakalisa ingqiqo, endaweni yokufunda ngokubethelela izimvo nokufunda nje bengaziqisisi iinyaniso okanye izimvo abazinikwayo;
 - *Ulwazi nezakhono ezikumgangatho ophakamileyo*: ukubekwa kweyona migangatho isezantsi yolwazi nezakhono ekufuneka abafundi bezibonakalise kwibanga ngalinye, kananjalo nokumiselwa imigangatho ephezulu enokufikelelwa kuzo zonke izifundo;

- *Ukuqhubela phambili*: umxholo wokufundwayo neemeko ekufundwa phantsi kwazo kwibanga ngalinye ubonisa ukuqhubela phambili, ukususela kokulula ukuya koko kuntsonkothileyo;
- *Amalungelo oluntu, uqukaniso, ukukhathalelwa kokusingqongileyo nobulungisa bezentlalo*: ukufakwa kwemithetho-siseko neendlela zokwenza ubulungisa kwezentlalo nokukhathalela indalo esingqongileyo kwanamalungelo oluntu, njengoko ebekiwe kuMgaqo-siseko weRiphabliki yoMzantsi Afrika. INkcazelo yeKharithulam yeSizwe yeBanga 10 - 12 ibonakalisa uvakalelo kwimiba yeyantlukwano enjengendlala, ukungalingani, uhlanga, isini, ulwimi, ubudala, ukuba nenkubazeko neminye imiba;
- *Ukuxatyiswa kolwazi lwemveli*: ukuthathela ingqalelo ubutyebi bembali kunye nelifa lemveli leli lizwe njengeentsika zokuxhasa izithethe eziqulethwe nguMgaqo-siseko; kunye
- *Nentembeko, umgangatho ophezulu, kunye negalelo elibonakalayo*: ukunika imfundo enokuthelekiseka neyamanye amazwe ngokomgangatho, ukunatyiswa kwanokungena nzulu kwayo kwimiba efundiswayo.

(d) INkcazelo yeKharithulam yeSizwe yeBanga R - 12 ijonge ukuphuhlisa abafundi abakwaziyo:

- ukuchonga nokusombulula iingxaki bathabathe izigqibo besebenzisa ingqiqo nokucinga okubonakalisa ubugcisa;
- ukusebenza ngempumelelo bebodwa naxa bekunye nabanye njengamalungu eqela;
- ukuzicwangcisa nokuzilawula bona buqu kunye nemisebenzi yabo ngentembeko nangempumelelo;
- ukuqokelela, ukuhlalutya, ukucwangcisa nokuhlaba amadlala ulwazi;
- ukunxibelelana nabanye ngempumelelo besebenzisa ubuchule bokubonwayo, bemiqondiso kunye/okanye nezinye izakhono zolwimi ngeendlela ezahlukeyo;
- ukusebenzisa inzululwazi nobuchwepheshe ngempumelelo nangokubonakalisa ukuba noxanduva ngokunengqiqo ekukhathaleleni indalo esingqongileyo nempilo yabanye; kunye
- nokubonisa ukuliqonda ihlabathi ukuba liyiseti yezinto ngezinto ezizalanayo ngokuqaphela ukuba iimeko ezisonjululwa phantsi kwazo iingxaki azizimelanga zodwa geqe.

(e) Ukuqukaniswa kwemfundo kufuneka kube ngundoqo ekulungiseleleni, ekucwangciseni nasekufundiseni kwisikolo ngasinye. Oku kunokwenzeka kuphela xa bonke ootitshala benolwazi oluphangaleleyo malunga nendlela yokuqonda nokusombulula izidingo zokufunda kunye nendlela yokucwangcisa abafundi abangafaniyo.

Undoqo ekulawuleni ukuqukaniswa kwemfundo kukuqinisekisa ukuba izidingo ziyachongwa zize zisonjululwe ngawo onke amaqela enxaso efanelekileyo asesikolweni, aquka ootitshala, amagosa esithili, amaQela eNkxaso amaZiko athile, abazali neZikolo zabaFundi abaneeMfuno eZizodwa njengamaZiko aXhobisa ngoLwazi. Ukusombulula izidingo eklasini, ootitshala mabasebenzise iindlela ngeendlela zokujongana neyantlukwano kwikharithulam ezifana nezo zikuxwebhu lweSebe leMfundo esisisiSeko oluthi *Guidelines for Inclusive Teaching and Learning (2010)*.

1.4 UKWABIWA KWEXESHA

1.4.1 IsiGaba esisisiSeko

(a) Ixesha elabelwe ukufundisa kwisiGaba esisisiSeko limi ngolu hlobo:

ISIFUNDO	IBANGA R (IIYURE)	IBANGA 1-2 (IIYURE)	IBANGA 3 (IIYURE)
ULwimi lwaseKhaya	10	7/8	7/8
ULwimi lokuQala oloNgezelelweyo		2/3	3/4
Izibalo	7	7	7
IzaKhono zoBomi	6	6	6
• ULwazi lokuQala	(1)	(1)	(1)
• UbuGcisa beZandla	(2)	(2)	(2)
• EzemiThambo	(2)	(2)	(2)
• UkuziPhatha neNtlalo	(1)	(1)	(1)
LILONKE	23	23	25

(b) Ixesha elabelwe ukufundisa leBanga R, 1 nelesi-2 ziiyure ezingama-23. IBanga lesi-3 ziiyure ezingama-25.

(c) IBanga R - 2 labelwe iiyure ezilishumi, zize zibe li-11 kwiBanga lesi-3. ULwimi lwaseKhaya lwabelwe ezona lwimi zininzi ezisi-8 nezona zimalwa ezisi-7; luze uLwimi oNgezelelweyo lwabelwe ezona zimalwa zibe 2 zize ezona zininzi zibe 3 kwiBanga R - 2. KwiBanga lesi-3 ezona yure zininzi zisi-8, zize zibe si-7 ezona zimalwa kuLwimi lwaseKhaya; kanti kuLwimi oNgezelelweyo ezona zimalwa zi-3, zize ezona zininzi zibe 4.

(d) IMathematika yabelwe iiyure ezisi -7.

(e) KwizaKhono zoBomi, uLwazi lokuQala lwabelwe iyure e-1 kwiBanga R - 2, zi-2 kwiBanga lesi-3, njengoko kubonisiwe kwizibiyeli kwiBanga.

1.4.2 IsiGaba esiPhakathi

(a) Ixesha elabelwe ukufundisa kwisiGaba esiPhakathi limi ngolu hlobo:

ISIFUNDO	IIYURE
ULwimi lwaseKhaya	6
ULwimi lokuQala oloNgezelelweyo	5
IMathematika	6
INzululwazi nobuChwepheshe (neTeknoloji) beNdalo	3,5
INzululwazi yezeNtlalo	3
IzaKhono zoBomi	4
• UbuGcisa beZandla	(1,5)
• EzemiThambo	(1)
• UkuziPhatha neNtlalo	(1,5)
ZIZONKE	27,5

1.4.3 IsiGaba esiPhezulu

(a) Ixesha elabelwe ukufundisa kwisiGaba esiPhezulu limi ngolu hlobo:

ISIFUNDO	IYURE
ULwimi lwaseKhaya	5
ULwimi lokuQala oloNgezelelweyo	4
IMathematika	4,5
IiNzululwazi zezeNdalo	3
INzululwazi yezeNtlalo	3
UbuChwepheshe (iTeknoloji)	2
INzululwazi yoLawulo lwezoQoqosho	2
IziFundo ngezoBomi	2
UbuGcisa neNkcubeko	2
ZIZONKE	27,5

1.4.4 IBanga 10 - 12

(a) Ixesha elabelwe ukufundisa iBanga 10 - 12 limi ngolu hlobo:

IZIFUNDO	IYURE
1. ULwimi lwaseKhaya	4.5
2. ULwimi lokuQala oloNgezelelweyo	4.5
3. IMathematika	4.5
4. IziFundo ngezoBomi	2
5. Ubuncinane bazo naziphi izifundo ezithathu ezikhethwe kwiQela B <u>isiHlomelo B</u> , <u>iiTheyibhile B1 – B8</u> zoxwebhu lwepolisi oluthi, <i>National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R – 12</i> , ngokuxhomekeke kwimigaqo ebekwe kumhlathi wama-28 wolu xwebhu lwepolisi.	12 (3x4yr)
ZIZONKE	27,5

Ixesha elabelwe ukufundisa ngeveki malisetyenziselwe ukufundisa izifundo ngokweemfuno zezifundo zeNkcuzelo yeKharithyulam yeSizwe yeBanga R - 12 (NKS) ezichatshazelwe apha ngasentla, hayi ezinye izifundo ezongezelelweyo. Ukuba umfundi ufuna ukongeza izifundo, makongezelwe elinye ixesha lezo zifundo azongezileyo.

ISAPHLUKO SESI- 2: INKCAZELO, IINJONGO, IZAKHONO NOMXHOLO

2.1 INTSHAYELELO

KwisiGaba esisisiSeko, izakhono eziphambili kwiKharityhulam yoLwimi lwaseKhaya zezi:

Kwicandelo lesibini, isiGaba sesiSeko seMathematika iNkcazelo yePolisi yeKharityhulam nokuHlola inika ootitshala ingcaciso yeMathematika, iziphumo ezingundoqo, izakhono ezingundoqo, ugxininiso kumxholo, umthamo weenkalo zemixholo, izixhobo zokufunda ezinokusetyenziswa kwisifundo seMathematika kwisiGaba esisisiSeko, izikhokelo ezinokusetyenziswa ukuxhasa abafundi abaneengxaki ekufundeni iMathematika, ukubala ngentloko nokomeleza ukufundisa izakhono zokubala kwabaqalayo kwiBanga labaQalayo.

2.2 YINTONI IMATHEMATIKA?

IMathematika lulwimi olusenza ukuba sisebenzise iisimboli namanani ukuchaza ulwalamano lwamanani lwejiyometri nolweegrafu. Ngumsebenzi owenziwa ngabantu oquka iipateni zokuqaphela, zokumela nezokuphanda nezolwalwamano ngokomgangatho ophathekayo nezokuhlala naphakathi kwezinto ngokokwazo. Incedisa ukwakha inkqubo yokubala ngentloko eqinisa ukusebenzisa ukucinga nzulu, ngokuchanekileyo nokwenza izisombululo eziza kukhokelela ekuthatheni izigqibo ezizizo.

2.3 IINJONGO EZINGUNDOQO

Iinjongo zokufunda nokufundisa iMathematika kukuphuhlisa ezi zinto zilandelayo kumfundi:

- Izinto ezingundoqo kunxibelelwano lweMathematika zisetyenziswa kwezentlalo, kwezingqongileyo, kwezenkcubeko nezobudlelwano ngezozoqosho;
- Ukuzithemba nokukwazi ukumelana nayo nayiphi imeko yeMathematika ngaphandle koloyiko lwayo;
- Ukufuna ukwazi nokuthanda iMathematika;
- Ukuncoma, ukuyonwabela, ubuhle nondiliseko lweMathematika;
- Ukuqaphela ukuba iMathematika inecandelo lobugcisa obenziwa ngabantu;
- Ulwazi olunzulu lweengqiqo ukunika intsingiselo yeMathematika; kunye
- Nokufumana ulwazi olungundoqo nezakhono ezifunekayo:
 - Ukusebenzisa iMathematika kwizinto ezibonwayo, kwezentlalo nezokusombulula iingxaki zeMathematika;
 - Ukufunda izifundo ezinxulumeneyo; kunye
 - Nokufunda banzi ngeMathematika.

2.4 IZAKHONO EZINGUNDOQO

- Ukwakha izakhono ezingundoqo zeMathematika, umfundi kufuneka:
- Akhe isigama esichanekileyo seMathematika;
- Akhe isigama samanani, ingqiqo yamanani, ukubala nokusebenzisa izakhono;
- Afunde ukumamela, ukuthetha, ukucinga, nokuqiqa usebenzisa ulwazi olufumeneyo;
- Afunde ukuphanda, ukuhlalutya, ukumela ukutolika ulwazi;
- Afunde ukubuza imibuzo nokusombulula iingxaki; kunye
- Nokwakha ulwazi nokubaluleka kweMathematika nendima eyidlalayo ebomini, nakuphuhliso lobume bomfundi.

2.5 IINKALO ZEMIXHOLO EKUGQALWE KUYO

IMathematika kwisiGaba esisisiSeko siquka iinkalo ezintlanu. Inkalo nganye yongeza kulwazi lwezakhono ezingundoqo. Le theyibhile ingezantsi ibonisa ugxininiso jikelele lweenkalo zemixholo kunye nezakhono eziziinkalo kwisiGaba esisisiSeko.

Itheyibhile 2.1 Umxholo ekugqalwe kuyo kwiMathematika yesiGaba esisisiSeko

ULWAZI LOMXHOLO LWEMATHEMATIKA		
linkalo zemixholo	Umxholo ekugqalwe kuyo jikelele	Umxholo ekugqalwekuyo kwisiGaba esisisiSeko
Amanani, liOpareyshini nolwalamano	<p>Ulwazi/ uphuhliso lwamanani luquka:</p> <ul style="list-style-type: none"> • Intsingiselo yeendidi zamanani ahlukeneyo; • Ukuzalana phakathi kweendidi zamanani ahlukeneyo; • Ukuzalana ngobukhulu beendidi zamanani ezahlukeneyo; • Ukuboniswa kwamanani ngeendlela ezahlukeneyo; kunye • Nefuthe lokusebenza ngamanani. 	<p>Uluhlu lwamanani oluphuhliswa kwiBanga lesi-3 luquka amanani azeleyo ukuya kwi-1000 namaqhezu aqhelekileyo. Kwesi sigaba, ingqiqo ngamanani yabafundi iphuhliswa ngezinto eziphathwayo ukubala ingqokelela yezinto, ipatishini, ukudibanisa iikhwantithi, ukubala ngokuqakatha ngeendlela ezahlukeneyo, ukusombulula izibalo zamazwi, nokwakha nokwahlula amanani.</p> <ul style="list-style-type: none"> • Ukubala kunceda abafundi ekuphuhliseni ingqiqo ngamanani, ukubala ngentloko, uqikelelo, izakhono zokubala nokunakana iipateni. • Ingqiqo yamanani ikhulisa abafundi ngeemilo zamanani ikwaphuhlisa iindlela ezinokwenza kube lula ukubala. • Ukusombulula iingxaki kunceda abafundi ekuchazeni iindlela abacinga ngayo ngokuthetha nangokubhala ngokuba bazobe benze neesimboli. • Abafundi bakhulisa ulwazi lwabo lwabasaqala ukubala ngokudibanisa, ngokuthabatha ngokuphindaphinda nangokwahlulahlula. • Abafundi baphuhlisa ulwazi lwabo lwamaqhezu ngokubala basombulule izibalo kuquka nokwaba izinto eziphathekayo nangokusebenzisa imizobo. Iingxaki zezibalo maziquke nezisombululo eziza kunikwa nemazisekelwe kumanani apheleleyo okanye amaqhezu, ukwehlulelana makungaquki ukufumana amanani apheleleyo qha, makuqoke nokufumana ukuqokelelwa kwengqokelela yezinto. Kweli nqanaba, abafundi abalindelekanga ukuba bafunde nokuba babhale iisimboli zamaqhezu.

ULWAZI LOMXHOLO LWEMATHEMATIKA		
linkalo zemixholo	Umxholo ekugqalwe kuyo jikelele	Umxholo ekugqalwekuyo kwisiGaba esisisiSeko
<p>IiPateni, iiFankshini neAljibra</p>	<p>I-Aljibra lulwimi lokufunda nokuthetha ngoninzi lweMathematika yaye lungagqithiselwa nasekufundweni kwemisebenzi nokunye ukuzalana kwezinto. Esona siseko sale nkalo yomxholo kukuba abafundi bafumane izakhono ezaneleyo ekusebenziseni iAljibra. Kukwagqalwe:</p> <ul style="list-style-type: none"> • ukucaciswa kweepateni nokuzalana kwazo kusetyenziswa ukubonisa ulwazi lweesimboli, iigrafu, neetheyibhile, kunye • ukufuna uchaze ukungatshintshi nokutshintsha kweepateni, kunye nokuzalana okwenza abafundi ukuba benze uqikelelo nokusombulula iingxaki. 	<p>Kwesi sigaba, abafundi basebenzisa zombini:</p> <ul style="list-style-type: none"> • Iipateni zamanani (umzekelo: ukubala ngokuqakatha); kunye • Neepateni zejijometri (umzekelo: imizobo). <p>Abafundi mabasebenzise izinto eziphathekayo, imizobo neesimboli xa bekhuphela, besongeza, bechaza naxa besenza iipateni.</p> <p>Ukukhuphela iipateni kunceda abafundi ukubona indlela eyiyo ezenziwe ngazo iipateni.</p> <p>Ukongeza iipateni kunceda abafundi ukuba bakhangele ukuba bazilandele kakuhle na iipateni.</p> <p>Ukuchaza iipateni kunceda abafundi ukuba baphuhlise izakhono zabo zolwimi.</p> <p>Ukubethelela kulandelelwano lweepateni kwenza isiseko sokuphuhlisa izakhono zokucinga ngeAljibra.</p> <p>Iipateni zamanani zincedisana nophuhliso lokwazi nokwakha amanani, ukusebenzisa nolwalamano lwamanani.</p> <p>Iipateni zejijometri ziquka ulandelelwano lwemigca, inkangeleko, nezinto kunye neepateni zelizwe jikelele, kwiipateni zejijometri abafundi basebenzisa ulwazi lwabo lwesimo nobume.</p>
<p>IsiThuba neMilo(ijijometri)</p>	<p>Ukufunda isiThuba neMilo kunceda ekulandeleni nasekuthandeni ipateni, ekulandeleni, ukuphumelela nasekuboneni ubuhle kwizinto zendalo nenkcubeko. Ibethelela:</p> <ul style="list-style-type: none"> • kwiimpawu, ulwalamano; • ukuziqhelanisa, iindawo; kunye • nenguqulelo yezinto ezinokwakheka kuka 2-D no 3-D. 	<p>Kwesi sigaba abafundi babethelela kwizinto ezinokwakheka kuka 2-D no 3-D, iimo, iindawo nezalathiso.</p> <ul style="list-style-type: none"> • Abafundi bafunda ngezinto ezinombonakalo yamacala amathathu neemo ezinombonakalo yamacala amabini, ukwahlula, ukwahlula ngakwamaqela, ukuchaza nokubiza agama azo. • Abafundi bazoba iimilo bakhe ngezinto. • Abafundi bayazitshintsha bazichaze iimilo nezinto ezikwiindawo ezibangqongileyo ezifana nezinto neemilo zeMathematika. • Abafundi bachaza indawo ezikuyo izinto, bona nabanye besebenzisa isigama. • Abafundi balandela benika izalathiso.
<p>Imilinganiselo</p>	<p>Umlinganiselo ubethelela ekukhetheni nasekusebenziseni imivo ngokufanelekileyo, izixhobo, neefomyula ukuqikelela ubungakanani beempawu zeziganeko, iimo, izinto nokusingqongileyo. Ijongene ngqo nolwazi lwenzululwazi, iteknoloji nezezimali kwilizwe jikelele, inceda umfundi ukuba:</p> <ul style="list-style-type: none"> • Enze uqikelelo olwenza okuvakalayo; yaye • Aqonde ulwazi lwemilinganiselo neziphumo zazo. 	<ul style="list-style-type: none"> • Kwesi sigaba, ulwazi lwabafundi kumlinganiselo luphuhliswa ngokwenza izinto ezahlukeneyo besebenzisa izinto eziphathekayo, iimilo, befunda iimpawu zobude, umthamo, ubunzima, ieriyane nexesha. • Abafundi balinganisa umthamo weemilo zezinto besebenzisa iiyunithi ezingamiselekanga apho kufanelekileyo, ezinjengezandla, izantya, nezikhongozeli, njalo njalo. • Abafundi bathlekisa ubuninzi ngokwahlukeneyo besebenzisa isigama sokuthelekisa esinje ngobude/ ubufutshane, ubunzima/ ubukhaphukhaphu, njalo njalo. • Abafundi baziswa kwiyunithi ezinjengeegrem, iikhilogrem, iimililitha, iilitha, iisentimitha neemitha. <p>Imisetyenzana yexesha kufuneka ibekelelwe abafundi baqhelaniswe ukwazi ixesha elidlulayo phambi kokuba bakwazi ukulifunda.</p>

ULWAZI LOMXHOLO LWEMATHEMATIKA		
linkalo zemixholo	Umxholo ekugqalwe kuyo jikelele	Umxholo ekugqalwekuyo kwisiGaba esisisiSeko
Ukusebenzangowazi oluqokelelweyo	<p>Kwindlela yokusebenza ngolwazi oluqokelelweyo, abafundi babonisa izakhono:</p> <ul style="list-style-type: none"> • zokuqokelela; • ukucwangcisa; • ukubonisa; kunye • nokuhlalutya ucacise ulwazi olunikiweyo. 	<p>Ugxininiso kumaBanga asisiseko ekufundiseni nasekufundeni indlela yokusebenza ngolwazi oluqokelelweyo ukuhlela izinto nedatha ngeendlela ezahlukeneyo, zixhomekeke kubomi bezinto nedatha.</p> <ul style="list-style-type: none"> • Abafundi kulindeleke ukuba batolike ze bakhe iigrafu zemifanekiso neigrafu zezitena ngongqamaniso lwamanani nedatha abayinikiweyo.

2.6 ULWABIWO LWEENKALO ZEMIXHOLO

Ulwabiwo lweenkalo zeMathematika lunceda iinkalo ezimbini: ulwabiwo lunika isikhokelo ngexesha emalini kwe nokufundisa kwinkalo yomxholo ngokufanelekileyo; okwesibini ulwabiwo lunika isikhokelo ngendlela umxholo omawuhlolwe ngayo.

Ulwabiwo lweenkalo zemixholo alufani kumaBanga esiGaba esisisiSeko.

Itheyibhile 2.2 Ulwabiwo lweenkalo zemixholo kwisiGaba esisisiSeko

ULWABIWO LWEENKALO ZEMIXHOLO			
Ummandla womxholo	IsiGaba 1	IsiGaba 2	IsiGaba 3
Amanani, ii-Opereyshini noLwalamano*	65%	60%	58%
Ipateni, iiFankshini neAljibra	10%	10%	10%
Isithuba nesimo (Ijiyometri)	11%	13%	13%
Imilinganiselo	9%	12%	14%
Ukusebenzisa nolwazi oluqokelelweyo	5%	5%	5%
	100%	100%	100%

*KwisiGaba sabaQalayo (R - 3), kubalulekile ukuba kugxininise ekufundiseni amanani, ukusebenza nolandelelwano kwiMathematika. Kubalulekile ukuba abafundi baphume bewazi kakuhle amanani bekwazi nokubala. Injongo kukuba abafundi baqiniseke bazithembe kumanani nasekubaleni. Ngenxa yesi sizathu ixesha lokufundisa amanani, ukusebenza nolandelelwano longeziwe. Uninzi lomsebenzi kwipateni malenziwe kwiipateni zamanani ukubethelela ulwazi lwabafundi ngamanani.

2.7 IMATHEMATIKA KWISIGABA ESISISISEKO

IMathematika yesiGaba esisisiSeko iqinisa uqhagamshelwano phakathi kobomi babafundi abasaqalayo naBangaphandle esikolweni, neMathematika enzima kwiizigaba ezingaphambili kwelinye icala. KwisiGaba sabaQalayo, abafundi mabakrotyiswe kwimiba yeMathematika ebanika amathuba okuba bathethe baze barekhdishhe iingcinga zabo zeMathematika.

Ixesha elichithwa ekufundiseni iMathematika linegalelo ekuphuhliseni ulwazi lwengqiqo nezakhono kubafundi. Imisetyenzana ekufuneka abafundi beyenzisiwe kukuba akufunekanga ibe ngxaka-ngxaka koko kufuneka igxininise kwengqiqo yeKharithyulum yeMathematika.

2.7.1 Izikhokelo zolawulo lweklasi

Ixesha elisikelwe ukufundisa iMathematika kusuku ngalunye kufuneka luthathwe njengepiriyodi. Ngepiriyodi yeMathematika ezi zinto zilandelayo kufuneka zenzeke:

- **Imisebenzi yeklasi yonke**
 - IMathematika ebalwa ngentloko
 - Ukuqukunjelwa kwemisebenzi yengqiqo
 - Ukulawula iklasi (ukunika imisebenzi yomfundi ngamnye, njalo njalo.)
- **Ukufundisa amaqela amancinci**
 - Ukubala
 - Uphuhliso lwamanani engqiqo (imisebenzi yokuthetha neyenziwa ngezandla)
 - Ukusombulula iingxaki (imisebenzi yokuthetha neyenziwe ngezandla)
 - Ukurekhodisha okubhaliweyo
 - Ukuphuhlisa iindlela zokubala (imisebenzi yokuthetha neyenziwe ngezandla)
 - Iipateni
 - Isithuba nesimo
 - Imilinganiselo
 - Indlela yokusebenza ngolwazi oluqokelelweyo

- **Ukusebenza wedwa**

Abafundi bayaziqhelanisa baqokumele iingqiqo eziphuhlise ekufundisweni kwiklasi yonke nakumaqela amancinci.

Imisebenzi yeklasi yonke: apho kugxininiswa kubalo lwentloko, makubekho uqokumele lwengqiqo nokunikwa imisebenzi kangangemizuzu engama-20 ngosuku ekuqaleni kwesifundo seMathematika. Ngeli xesha utitshala uza kusebenza neqela lonke leklasi eqwalasela ekwarekhodisha, apho kufanelekileyo, amagama eentsuku zeveki, umhla, abafundi abakhoyo nabangekhoyo esikolweni nokuba injani imo yezulu. Ukubala ngentloko kuquka ukubala ngentloko okukhawulezileyo okunje ngokuthi “inani phambi nasemva kwesi-8 ngu-2 ngaphezu/ ngaphantsi ko-8 ngu: $4+2$; $5+2$; $6+2$ ” njalo njalo. Ngeli thuba utitshala makaqokumele iingqiqo ezinobunzima. Enye into ebalulekileyo utitshala amakayenze kukuba anike iklasi yakhe imisebenzi ephangaleleyo nemisebenzi abayenza bodwa ngokwabo ngelixa ancedisana namaqela amancinci.

Imisebenzi yamaqela amancinci: olona hlobo lusebenzayo kuxa utitshala esebenza ngamaqela amancinci (8 ukuya kwi-12) anabafundi abalingana ngokucinga emethini okanye ezitafileni, ngelixa abanye besebenza bodwa. Utitshala usebenza ngokuthetha nangokwenza nabafundi, besebenza imisebenzi enjengokubala, ukuqikelela, uphuhliso lwengqiqo lwamanani nokusombulula iingxaki, nemisebenzi yeepateni, izithuba neemilo, imilinganiso, indlela yokusebenza ngolwazi oluqikelelweyo, ekufuneka icwangciswe ngobunono.

Ukwenzela ukubethelela ukufunda, ukubhala makube yinxalenye yemisebenzi yamaqela apho kunokwenzeka.

Abafundi mababe nezinto zokubhala (umzekelo: iincwadi zokubhala) zemisebenzi yokusombulula iingxaki. Imisebenzi yamaqela mayibe nonxibelelwano, abafundi mabakhuthazwe ukuba “benze, bathethe baze barek-

hodishe” iingcinga zabo ngeMathematika.

Ootitshala mabazame ukungabajongeli phantsi abafundi abaqonda kade; nabo kufuneka banikwe imisetyenzana enzima. Kuba lula ukuxuba imisebenzi kwiqela labantwana abakwinqanaba elilinganayo lokucinga. Kodwa amaqela axubeneyo asebenza kakuhle ukwakha, ukulinganisa iipateni nokuhlela okanye imidlalo.

Imisebenzi eyenziwa ngabanye: ngeli lixa utitshala asebenza ngeqela elincinci, amanye amaqela makenze imisebenzi yeMathematika eyahlukeneyo ebethelela nequkumbela iingqiqo nezakhono ebezifundisiwe kumaqela amancinci. Imisebenzi eyenziwa ngabanye mayohlula-hlulwe ukulungiselela amaqela ahlukeneyo ngokucinga. Imisebenzi yamaqela azimeleyo aquka:

- lincwadi zemisebenzi;
- lincwadi zemisebenzi yokubhala/ amakhadi okubala, ukudlala ngamanani, imisebenzi elula ngokusemholweni, njalo njalo;
- Imidlalo yeMathematika enjengeLudo, dominos, iiphazili ; kunye
- Nemisebenzi equka ukwakha, ukuHlola, iipateni okanye imilinganiselo.

Iphiriyodi yeMathematika kufuneka incede abafundi abaneengxaki zokufunda, nemisebenzi yabantwana abakrele-krele nemisebenzi yokuHlola, njalo njalo.

Imisebenzi yamaqela amancinci nazimeleyo mayijongwe, ikorekishwe ngutitshala njengemisebenzi yohlaziyo ecwangcisiweyo nengacwangciswayo.

Ukujongwa kwendlela abafundi abafunda nabafundiswa ngayo incedisa utitshala ukuba enze uhlahaziyo oluqhubekayo, alandele ukujonga inkqubo yabo aze acwangcise imisebenzi yokuncedisana nabafundi abafumana iingxaki.

2.7.2 Abafundi abaneengxaki zokufunda kwiMathematika

Kubalulekile ukuba abafundi abaneengxaki zokufunda kwiMathematiki bakrotyiswe kwimisebenzi eyenzelwe ukufunda. Ixesha elininzi malisetyenziswe kwimizkelo nemisebenzi yezandla neyenzwayo kunabanye abafundi, umzekelo, ukusetyenziswa kwemisebenzi enzima msinyane kungadodobalisa ukuqhubeka kwaba bafundi. Aba bafundi mabanikwe ithuba elongezelelweyo:

- Lokugqibezela imisebenzi;
- Ukufumana izakhono zokucinga (belandela iindlela ezithile); kunye
- Nemisebenzi yokuHlola.

Inani lemisebenzi emayenziwe malilungiselelwe abafundi kodwa kungasileli izakhono ekufuneka zifundisiwe.

2.7.3 Imisebenzi yokubala ngentloko

Ukubala ngentloko kunendima enkulu kwikharithyulam. Ilibhondi zamanani neetheyibhuli zokuphinda-phinda zithatha ngokuba abafundi bayazi okanye bamele ukukhumbula uluhlu lwesigaba ngasinye. Kwakhona, ukubala ngentloko kwenzelwa ukubala ukuya kufika kumanani amakhulu ubala ngokuqakatha nokwenza imisebenzi enjengo“kubala phantsi naphezulu kwileli yamanani”, umzekelo, utitshala unokubuza le mibuzo ilandelayo “imibuzo ethungelanyo” “qala kuma-796 yongenza ngesi-7. Ewe, ngama-803 nciphisa isi-5. Ewe, ngama-798. Yandisa nge-10...wandise ngesi-2... kuma-90...unciphise ngesi-5...” njl. Le misebenzi incedisa abafundi ekwakheni imigca-manani yokubala ngentloko.

Ukubala ngentloko kubonakala kakhulu xa kubalwa naxa kuphuhliswa icandelo lamanani ngokunxulumene nesihloko samanani neepateni, kunokuphinda kuvele kwimisebenzi yolinganiselo nakwindlela yokusebenza ngolwazi oluqokelelweyo. Xa besebenzisa imisebenzi yokubala ngentloko, utitshala makangabanyanzeli abafundi ukuba benze imisebenzi abangenakho ukuyenza — izixhobo zokubhala nezokubala mazisoloko zifumaneka kubafundi abazifunayo.

2.8 IBANGA LABAQALAYO(R)

Indlela yokufunda iMathematika mayisetyenziswe ngokunxulumanisa nangokufunda ngokudlala. Utitshala makasoloko ezixhobisa, abe nomcebisi kunomququzeleli. Umcebisi usebenzisa amathuba okufunda okungacwangciswa xa abafundi besenza imidlalo ngokukhululekileyo kwikona yokudlala ngokuzikhethela okanye kweyeebhloko zokwakha, zesanti, nemidlalo yamanzi nemisebenzi, encediswa ngutitshala kwizibalo ezijongene nengqiqo ezinjengokubala, uphuhliso lwengqiqo yamanani, nesithuba nesimo, iipateni, ixesha neminye imisebenzi eqalayo yeMathematiki. Imibala yodwa asiyongqiqo yeMathematika, kodwa ingasetyenziswa ekuphuhliseni iingqiqo zeMathematika ezinjengokuhlenga-hlengisa, ukwahlula-hlula nokuchaza.

Yonke imiba yeBanga labaQalayo, iquka ubume beklasi, ukufundisa nokufunda makukhokelele ekuphuhliseni kokufunda komfundi ngokupheleleyo. Uphuhliso olunxulunyaniswe nokufunda kwabaqalayo, inyumerasi luquka nokuphuhliswa kwengqondo (ukusombulula iingxaki, ukucinga ngolandelelwano nokuqiqa), uphuhliso lolwimi (ulwimi lweMathematika kunye nokuphuhlisa izakhono zokushukuma kunye nemvakalelo yobume. Zonke ezi meko zingaphuhliswa ngamabali, iingoma, imidlalo yeminwe, izicengelelzo, imidlalo yamanzi, iithoyi zokufundisa kunye nemidlalo yeebhodi, ngokwakha nemisebenzi yokuzungeza, imidlalo yemibono, imidlalo yangaphandle neyaseyadini yokudlala. Imidlalo emininzi mayiquke izakhono zenyumeresi, umzekelo, ukulinganisa izixhobo zokupheka okanye ukubala xa uyokuthenga.

Ngamanye amazwi, ukufumana izakhono zeMathematika yabaqalayo nezinye izakhono ezinxulumene neMathematika ezinjengezootitshala abaphum' izandla, kulandela le migaqo yamanqanaba okufunda ilandelayo:

- Kwinqanaba lezinto ezibanjwayo (esebenzisa umzimba nemizwa);
- Kwinqanaba lezinto eziphathekayo (3-D, usebenzisa izinto ezinje ngeebhloko, iziciko zeebhodle, amasebe, neezinye izinto ezisekuhlaleni); kunye
- Besebenzisa/ bebonisa iphepha nepensile (ezemizobo, amakhadi okuthelekisa njl.)

KwiBanga labaQalayo ithayimtheyibhile ibizwa ngokuba yinqubo yemihla ngemihla, iquka la macandelo alandelayo:

- Imisebenzi ekhokelwa ngutitshala;
- Izinto ezenziwa rhoqo; kunye
- Imisebenzi ekhokelwa ngabafundi okanye imidlalo ekhululekileyo.

Ugxininiso malube sekusetyenzisweni kwezi zakhono kwisicwangciso semihla ngemihla ukukhuthaza ulwazi lwenyumeresi yabaqalayo ngokuyonwabela nangokufunda. Umzekelo, ekufundeni okukhokelwa ngutitshala inyumeresi ifunyanwa ngexesha lesangqa. Uninzi lwezangqa lunokunikwa ukuphuhlisa iMathematika kwisangqa sakusasa xa abafundi bebuliswa kujongwa abakhoyo nabangekhoyo; lithuba lokufundisa amanani nokubala. Kwezinye izangqa, ezinjengezangqa zeMathematika, izangqa zamalungu asetyenziswa ukubona, ukushukuma, umculo nezangqa zobugqi zinokuncedisa ukufundisa iMathematika.

Imisebenzi yobugcisa bokuyila inokubethelela kwiMathematika, umzekelo, kusetyenziswe iimilo zejiyometri njengezangqa nezikwere ukwenza ikholaji okanye ukuyila iipateni zokwenza ifreyimi yemifanekiso. Itshati yemozulu,

ikhalenda neengoma zeentsuku zokuzalwa zinika ixesha lokufundisa izakhono zeMathematika. Lulwazi lukatitshala olunokuphuhlisa imfundo yabafundi.

- *Indlela zokwenza izinto*, apho abafundi bathatha inxaxheba, njengexesha lokutya, ukufika, ixesha lokugoduka, ixesha lokuya ezimfanelweni (ngasese), zonke ezo zinto zinokusetyenziswa ukufundisa iMathematika. Abafundi abanxibe bomvu, umzekelo, yiya ezimfanelweni (ngasese) (imibala kunye namanani aqhelekileyo), umfundi ngamnye ufumana ipleiyiti kunye nesonka (ungqamaniso lwamanani), uThandi ufuna isonka sesibini, uMandla yena wanele. Le nto ikhokelela kumathuba okufundisa, ngamanye amazwi, ukuba ngumcebisi wokufundisa.
- Ngexesha lokudlala utitshala angakhuthaza ukufundiswa kweMathematika yabaqalayo kwiindawo ezilungiselelwe ukudlala. Imidlalo yangaphandle enjengokugwencela (ukukhwela) emaplango okanye ukuqhuba ibhayisekile kunokukhuthaza isigama esinjengokunyuka/ ukwehla, ezantsi/ phezulu, ukukhawuleza/ ukucotha, phezulu/ ezantsi, njl. Imidlalo yesanti namanzi iza kuqinisa ulwazi lwezakhono ezinjengobunzima, nomthamo. Yonke le misebenzi ikhuthaza izakhono zamalungu omzimba, ikhuthaza ukufundisa esikolweni ilitheresi nenyumeresi. Nantsi imizekelo yezi zakhono:
 - Ukuphuhlisa ulwazi lwendawo yesithuba, umzekelo emva, phambili, ngaphantsi, emva kwento (umzekelo, le nto ingayanyaniswa nendawo yenani kwiMathematika); kunye
 - Nezalathiso kunye namacala (zinganxulumaniswa namanani nokubhala iileta nasekufundeni ukunene nasekhohlo).

Le nto sithetha ngayo apha ngentla ibonisa indlela iBanga labaQalayo eliphuhlisa ukusombulula iingxaki, ukucinga ngengqiqo nemfundo yokuba ngabemi ngenxa yokubethelela ukuba ngabafundi abasebenzisanayo nabaxoxisanayo. Ngokusebenzisa amathuba afundisekayo, utitshala makakhuthaze abafundi ukuba bajonge izigqibo abazithathayo baqikelele okunokwenzeka, umzekelo, ukuba isikhongozeli esisetyenziswe ngexesha ebesesetyenziswe kumdlalo wamanzi singathatha amanzi angaphezu kwesinye isikhongozeli.

Ngokunika ingcebiso aze acele umngeni kubantwana ukuba bacinge ngezinye iindlela zokusombulula iingxaki, aphinde abakhuthaze ukuba bacinge nzulu ngezizathu nangezizigqibo abathi bazithathe. Ngale ndlela yokucinga awuncedi iMathematika kuphela, koko uphuhlisa ulwazi ngokupheleleyo yaye izizathu zikaCAPS ziyaphuhliseka kakhulu.

Iindlela zokuhlaziya kwiBanga labaQalayo mazibe zezinganyanzelisi ukubhala uvavanyo yaye abantwana maBangafakwa kuxinzelelo lokubhala uvavanyo. Ngenxa yesi sizathu, imisebenzi yokuHlola ayifakwanga kulo mquku kaCAPS. Umsebenzi ngamnye wovavanyo mawulungiswe ngobunono ukwenzela ukuba unxulumanise izakhono ezininzi.

KwiBanga labaQalayo uvavanyo lwenziwa ngokujonga, utitshala erekhodisha esebenzisa itshekhilisti. Loo nto inika indlela aqhuba ngayo umfundi ngamnye wonyaka wonke, ubunzima abufumeneyo neendawo ebegqwese kuzo. Olu hlobo lunceda ukukhawulelana neengxaki nendawo agqwesa kuzo ukuba ziqhubele phambili.

Indlela yakudala, yokufundisa abafundi bevaleleke kwigumbi lokufundela engenakudlala mayingasetyenziswa, nanjengoko ingakukhuthazi ukufunda inyumeresi ngokugqibeleleyo komfundi okwisiGaba sabaQalayo. IBanga labaQalayo malingenziwa iBanga loku-1. Eli Banga linezalo iimpawu ezibonisa indlela abantwana abakule minyaka abazifumanela ngayo ubomi jikelele, ulwazi, izakhono, nendlela yokuziphatha eza kubanika amathuba kwiminyaka ezayo yokufunda okuseSikweni.

INKQUBO YEMIHLA-NGEMIHLA: IBANGA LABAQUALAYO (R)

(Ukusaka ± 7:30 – 13:00)

UKUFIKA NEMIDLALO

Ama- 36 emiz	Ukubulisa limini Zokuzalwa Irejista Iindaba
	IMISEBENZI Iilwimi EKHOKELOWAYO Izibalo NGUTITSHALA Izakhono zobomi

Iilwimi
Izibalo
Izakhono zoBomi

Ama- 50 emiz

- IMISEBENZI YOBUGCISA (yonke imihla: undoqo -1 +2/3 imisebenzana exhasayo)
- UKUDLALA IMIDLALO YOKUZIKHETHELA EKLASINI

- Imidlalo yelizwe lokuzakhela
- Imidlalo yokulinganisa
- Ukwakha
- Ukudlala ngeebhloko
- lithoyi zokufunda
- Imidlalo yokusebenzisa ukucinga
- Iiphazili
- Ikona yeencwadi
- Ixesha lokuthula

Ama- 30 emiz	IMISEBENZI Iilwimi EKHOKELOWAYO Izibalo NGUTITSHALA Izakhono zoomi
---------------------	--

I-10 lemiz	IXESHA LOKUYA KUZIKHULULA (NGASESE) uLwimi, IziBalo, IzaKhono zoBomi
-------------------	--

Ama- 20 emiz	IXESHA LOKUTYA uLwimi, IziBalo, IzaKhono zoBomi
---------------------	---

Ama- 60 emiz

- Ukudlala Imidlalo Yokuzikhethela Eklassini Ze Kucocwe.

- Umdlalo Ngamanzi
- Umdlalo Ngesanti
- Umdlalo Ngokulinganisa
- Iibhola
- Oojingi
- lithoyi Zamavili
- lithoyi Zokufunda
- Ijangili jim
- Amatayara
- Imithambo
- Imidlalo

I-10 lemiz	IXESHA LOKUYA KUZIKHULULA uLwimi, IziBalo, IzaKhono zoBomi
-------------------	--

Ama- 30 emiz	IMISEBENZI Iilwimi EKHOKELOWAYO Izibalo NGUTITSHALA Izakhono zobom
---------------------	--

Ama- 30 emiz	IBALI Yonke imihla
---------------------	--------------------

Ixesha lokuphumla/ lokuthula ze kugodukwe

- IZIBALO**
- Imisebenzi Esekelwe Kwikharithyulam (Caps) (Izibalo)
 - Iingoma Nomculo
 - Imisebenzi Efuna Ucinge
 - Izicengcelezo Zokubala
 - Iingxoxo Ngezihloko
 - Umfuniselo Wezenzulwazi
 - Imidlalo Yokuzikhethela
 - Okwenziwa Imihla Ngemihla

- ULWIMI**
- Imisebenzi esekelwe kwi-kharithyulam (caps)
 - (Ulwimi lwasekhaya)
 - Amabali
 - Ukudlala eqongeni
 - Iincwadi/imifanekiso
 - Ukufunda imifanekiso
 - Iingxoxo
 - Imisebenzi efuna ucinge
 - Ipowusta yomzali
 - Ileta yomzali
 - Iindaba
 - Imibongo nezicengcelezo
 - Umculo/iingoma
 - Izikali/ iiteyiphu
 - Iingxoxo ngezihloko
 - Imisebenzi yoluntu
 - Ezenziwa imihla ngemihla
 - Imidlalo yokuzikhethela

- IZAKHONO ZOBOMI**
- Imisebenzi ethathelwe kwipolisi yekharithyulum nokuhlola (Izakhono zobomi)
 - Iingoma nomculo
 - Imibongo nezicengcelezo
 - Ukuxoxwa kwemixholo
 - Imihla yokuzalwa
 - Imisebenzi yesiqhelo
 - Ukudlala okukhulelekileyo

2.9 IZIXHOBO EZICETYSWAYO: IGUMBI LESIGABA ESISISISEKO

- Izinto zokubala
- idayisi elikhulu
- ifreyim enkulu yokubala
- itshati yobude
- iposta enkulu ka-1 – 100 neka-101 – 200 (itshati ye-100)
- iintlobo ezahlukeneyo zomgca-manani
- iseti yefladi-khadi(Flard cards)
- imali yokudlala — umwagalala nengamaphepha
- ikhalenda yonyaka esikuwo
- iwotshi yosiba enkulu yodonga
- isikali
- iibhloko zokwakha
- udongwe
- iintlobo zeebhokisi ngokweemilo nobungakanani obuvela emakhaya
- iintlobo zeebhotile zeplastiki nezikhongozeli zokubonisa ubungakanani
- imizekelo yesifiye/ingqokumba (sphere) (ibhola), amaxande, ityhubhu, ikhowuni, ipiramidi kunye nesilinda. Utitshala angazenzela ezakhe izixhobo.
- liplastiki, amakhalibhodi azizikwere, amaxande ahlukeneyo, izangqa, oonxantathu beendidi zobukhulu
- Imidlalo yeMathematika, umzekelo, iLudo, inyoka neleli, iiphazili ezijiko-jiko, idomino, iiTangram, njl.
- Ezifunekayo kwiBanga labaQalayo (R) neloku-1:
- lindawo zesanti nokudlala ngamanzi
 - Izixhobo zokugwencela, zokuncekelela, zooswingi nezoogqaphu
 - Ivenkile yomdlalo nezinto zokuthengwa ngemali yokudlala
 - Imidlalo exutyiweyo enjengothi 'yintoni esesikwereni'?
 - iibhloko

IS AHLUKO SESI- 3: INKCAZELO YOMXHOLO

3.1 INTSHAYELELO

KuMjikelo weMfundo noQeqesho Jikelele kukho iinkalo ezintlanu zemixholo yeMathematika:

- Amanani, ii-Opareyshini noLwalamano.
- Iipateni, iiFankshini/ifankshini i ne-aljibra.
- Isithuba nemilo (Ijyometri).
- Umlinganiselo.
- Ukusebenza ngolwazi oluqokelekweyo.

Umxholo wenkalo nganye uyacazululwa ube zizihloko zeMathematika, umzekelo, kwisiThuba neMilo kwisiGaba esisisiSeko isihloko esinye sineemilo ezinokwakheka kuka (2-D). Iingqiqo nezakhono zixeliweyo kwisihloko ngasinye. ICandelo lesi-3 leNkcazelo yePolisi kaZwelonke yeKharityhulam nokuHlola linika lize licacise ngomxholo weMathematika ofunekayo.

3.2 INKCAZELO YOMXHOLO UKUBONISA INKQUBELA-PHAMBILI

Iitheyibhile zesigaba ezingamagqabantshintshi zibonisa inkcazelo yeengqiqo nezakhono nenkqubela-phambili ukusuka kwiBanga labaQalayo ukuya kwelesi-3.

Nangona kunjalo, kwizihloko ezithile, iingqiqo nezakhono ziyafana kumaBanga amabini okanye amathathu alandelelanayo. Ingcaciso ngomxholo iza kukunika izikhokelo ngendlela inkqubela-phambili efanele ukuba imiliselwe ngayo. Okufumaneka kumxholo othile makufundwe kunye nangcaciso ngomxholo lowo.

Amagqabantshintshi ngesiGaba esisisiSeko abonisa inkqubela-phambili ngeenkalo zomxholo; Ukubala ngamanani nolwalamano, iipateni, imisebenzi ne-aljibra, umlinganiselo nokusetyenziswa kolwazi/ datha kwiBanga labasaQalayo – ukuya kwelesi-3 njengoko kuxeliwe kule theyibhile ingasezantsi:

AMAGQABANTSHINTSHI ESIGABA ESISEKO
1. AMANANI, II-OPAREYSHINI NOLWALAMAMO

Inkqubela-phambili yamanani, ukubala nolwalamano.

- Inkqubela-phambili engundoqo kumanani, ukubala nolwalamano yenzeka ngeendlela ezintathu:
 - Uluhlu lwamanani luyanda.
 - Iindidi ezahlukeneyo zamanani ziyafundiswa.
 - Iindlela zokubala ziyaguquka.
- Njengokuba ummandla wamanani owenza izibalo usanda ukuya kwiBanga lesi-3, abafundi kufanele babe neendlela ezichanekileyo zokubala.
- Imeko-bume mayithathele ingqalelo uluhlu lwamanani lweBanga kunye nokukwazi ukubala kwabafundi.

ISIHLOKO		IBANGA LABAQUALAYO	IBANGA LOKU-1	IBANGA LESI-2	IBANGA LESI-3
UKUPHUHLISA INGQIQO YAMANANI: Bala ngamanani apheleleyo.					
1.1 Bala izinto.	Bala izinto eziphathekayo. Qikelela uze ubale uye kufika kwi-10 lezinto ezisetyenziswa imihla ngemihla ngokuzithemba.	Bala izinto eziphathekayo. Qikelela uze ubale uye kufika kwi-10 lezinto ezisetyenziswa imihla ngemihla ngokuzithemba.	Bala izinto eziphathekayo. Qikelela uze ubale uye kufika kuma-50 ezinto ezisetyenziswa imihla ngemihla ngokuzithemba. Kukhuthazwa ukubala ngokuqakanisa.	Bala izinto eziphathekayo. Qikelela uze ubale uye kufika kuma-200 ezinto ezisetyenziswa imihla ngemihla ngokuzithemba. Kukhuthazwa ukubala ngokuqakanisa.	Bala izinto eziphathekayo. Qikelela uze ubale uye kufika kwi-1 000 lezinto ezisetyenziswa imihla ngemihla ngokuzithemba. Kukhuthazwa ukubala ngokuqakanisa.
1.2 Bala usiya phambili, ubale ubuya umva.	Bala uye phambili nasemva ukusuka kwisi-1 ukuya kwi-10; Sebenzisa izingqisho neengoma zamanani.	Bala uye emva naphambili ngezinye ukusukela kulo naliphi inani phakathi kwe-0 ukuya kwi-100. • Bala uye phambili: • Ngama-10 ukusukela kwisiginzi sama-10 phakathi ko-0 ne-100. • Ngezi-5 ukusukela kwisiginzi sezi-5 phakathi kwe-0 ne-100. • Ngezi-2 ukusukela kwisiginzi sezi-2 phakathi kwe-0 ne-100.	Bala uye phambili nasemva: • Ngoo-1 ukusukela kulo naliphi inani eliphakathi kwe-0 nama-200. • Ngama-10 ukusukela kwisiginzi sama-10 phakathi kwe-0 nama-200. • Ngezi-5 ukusukela kwisiginzi sezi-5 phakathi kwe-0 nama-200. • Ngezi-2 ukusukela kwisiginzi sezi-5 phakathi kwe-0 nama-200. • Ngezi-3 ukusukela kwisiginzi sezi-3 phakathi ko-0 nama-200. • Ngezi-4 ukusukela kwisiginzi sezi-4 phakathi kwe-0 nama-200.	Bala uye phambili nasemva: • Ngoo-1 ukusukela kulo naliphi inani eliphakathi kwe-0 ne-1000. • Ngama-10 ukusukela kwisiginzi sezi-10 phakathi kwe-0 ne-1000. • Ngezi-5 ukusukela kwisiginzi sezi-5 phakathi kwe-0 ne-1000. • Ngezi-2 ukusukela kwisiginzi sezi-2 phakathi kwe-0 ne-1000. • Ngezi-3 ukusukela kwisiginzi sezi-3 phakathi kwe-0 ne-1000. • Ngezi-4 ukusukela kwisiginzi sezi-4 phakathi kwe-0 ne-1000. • Ngama-20, ngama-25, ngama-50 ne-100 ukuya kwi-1000.	

ISIHLOKO	IBANGA LABAQAALAYO	IBANGA LOKU-1	IBANGA LESI-2	IBANGA LESI-3
<p>UKUPHUHLISA INGQIQO YAMANANI: Ukumela amanani azeleyo.</p>	<p>1.3 Iisimboli zamanani namagama amanani</p> <p>Qaphela, gqala uze ufunde amanani.</p> <ul style="list-style-type: none"> • Qaphela, gqala uze ufunde iisimboli zamanani ukusuka ku-1 ukuya kwi-10. • Qaphela, gqala uze ufunde amagama amanani ukusuka ku-1 ukuya kwi-10. 	<p>Qaphela, gqala uze ufunde amanani.</p> <ul style="list-style-type: none"> • Qaphela, gqala uze ufunde iisimboli zamanani ukusuka ku-1 ukuya kwi-100. • Bhala iisimboli zamanani ukusuka ku-1 ukuya kuma-20. • Qaphela, gqala uze ufunde amagama amanani ukusuka ku-1 ukuya kwi-10. • Bhala amagama amanani ukusuka ku-1 ukuya kwi-10. 	<p>Qaphela, gqala uze ufunde amanani.</p> <ul style="list-style-type: none"> • Qaphela, gqala uze ufunde iisimboli zamanani ukusuka kwi-0 ukuya kwi-100. • Bhala iisimboli zamanani ukusuka kwi-0 ukuya kwi-100. • Qaphela, gqala uze ufunde amagama amanani ukusuka kwi-0 ukuya kwi-100. • Bhala amagama amanani ukusuka kwi-0 ukuya ku-100. 	<p>Qaphela, gqala uze ufunde amanani.</p> <ul style="list-style-type: none"> • Qaphela, gqala uze ufunde iisimboli zamanani ukusuka kwi-0 ukuya kwi-1 000. • Bhala iisimboli zamanani ukusuka kwi-0 ukuya kwi-1 000. • Qaphela, gqala uze ufunde amagama amanani ukusuka kwi-0 ukuya kwi-1 000. • Bhala amagama amanani ukusuka kwi-0 ukuya kwi-1 000.
<p>1.4 Chaza, thelekisa uze ucwangcise amanani azeleyo.</p>	<p>Chaza, thelekisa uze ucwangcise ingqokelela yezinto ukuya kwi-10.</p> <ul style="list-style-type: none"> • Chaza amanani azeleyo ukuya ku-10. • Thelekisa ukuba kwezi ngqokelela zimbini zini kiweyo zezinto ziziphi ezinkulu, ezincinane, ezincinane kunenye, ezinkulu kunezinye, ezingaphezu kwenye, ezingaphantsi kwezinye, ezilingana nanye, ezininzi, ezimbalwa ukuya kutsho ku-10. • Cwangcisa ngaphezu kweengqokelela ezimbini ezinikiweyo zezinto ukusukela kweyona incinane ukuya kweyona inkulu ukuya kutsho kwi-10. 	<p>Chaza, thelekisa uze ucwangcise ingqokelela yezinto ukuya kuma-20.</p> <ul style="list-style-type: none"> • Chaza uze uthlekise ingqokelela yezinto ngokobuninzi, ngokobuncinane nangokufanayo. • Chaza uze ucwangcise ingqokelela yezinto ukusukela kweyona ininzi ukuya kweyona incinane nokusuka kweyona incinane ukuya kweyona inkulu. 		

ISIHLOKO	IBANGA LABAQLAYO	IBANGA LOKU-1	IBANGA LESI-2	IBANGA LESI-3
<p>1.4 Chaza, thelekisa uze ucwangcise amanani azeleyo.</p>	<p>Sebenzisa amanani aqhelekileyo ukubonisa ucwangciso, indawo okanye ubume.</p> <p>Phuhlisa ulwazi ngamanani aqhelekileyo, umzekelo, okokuqala, okwesibini, okwesithathu ukuya kweyesithandathu neyokugqibela.</p>	<p>Chaza, thelekisa uze ucwangcise amanani ukuya kutsho kuma-20.</p> <ul style="list-style-type: none"> Chaza uze uthlekise amanani azeleyo ngokobuncinane kunelinye, ubukhulu kunelinye nokuba ngaphezulu kwelinye, ngokuba ngaphantsi kwelinye, nokulingana nelinye. Chaza uze ucwangcise amanani ukusukela kwelona lincinane ukuya kwelona likhulu nokusukela kwelona lincinane. <p>Sebenzisa amanani aqhelekileyo ukubonisa ucwangciso, indawo okanye ubume.</p> <p>Beka izinto emgceni ukusukela kweyokuqala ukuya kweyesithumi okanye eyokuqala ukuya kweyokugqibela, umzekelo, eyokuqala, eyesibini, eyesithathu..... kweyeshumi.</p>	<p>Chaza, thelekisa uze ucwangcise amanani ukuya kutsho kuma-99.</p> <ul style="list-style-type: none"> Chaza uze uthlekise amanani azeleyo ukuya kuma-99 ngokobuncinane kunelinye, ubukhulu kunelinye nokuba ngaphezulu kwelinye, ngokuba ngaphantsi kwelinye, nokulingana neny. Chaza uze uthlekise amanani azeleyo ukuya kuma-99 ukusukela kwelona lincinane ukuya kwelona likhulu nokusukela kwelona lincinane. <p>Sebenzisa amanani aqhelekileyo ukubonisa ucwangciso, indawo okanye ubume.</p> <p>Beka izinto emgceni ukusukela kweyokuqala ukuya kweyesithumi okanye eyokuqala ukuya kweyokugqibela, umzekelo, eyokuqala, eyesibini, eyesithathu..... kweyamashumi amabini.</p>	<p>Chaza, thelekisa uze ucwangcise amanani ukuya kutsho kuma-999.</p> <ul style="list-style-type: none"> Chaza uze uthlekise amanani azeleyo ukuya kuma-999 ngokobuncinane kunelinye, ubukhulu kunelinye nokuba ngaphezulu kwelinye, ngokuba ngaphantsi kwelinye, nokulingana nelinye. Chaza uze uthlekise amanani azeleyo ukuya kuma-99 ukusukela kwelona lincinane ukuya kwelona likhulu nokusukela kweyona likhulu ukuya kwelona lincinane. <p>Sebenzisa amanani aqhelekileyo ukubonisa ucwangciso, indawo okanye ubume.</p> <p>Sebenzisa, funda uze ubhale amanani aqhelekileyo, kuquka ukushunqulela (okokuqala, okwesibini, okwesithathu ukuya kweyama-31).</p>
<p>1.5 Ixabiso lendawo elimi kuyo inani.</p>	<p>Qalisa ukuqonda ixabiso lendawo elimi kuyo inani ubuncinane amanani amivo mi-2 ukuya kuma-20.</p> <ul style="list-style-type: none"> Cazulula amanani amivo mi-2 abe zizininzi ze-10 kunye nemivo (neeyunithi). 	<p>Qalisa ukuqonda ixabiso lendawo elimi kuyo inani ubuncinane amanani amivo mi-2 ukuya kwi-99.</p> <ul style="list-style-type: none"> Cazulula amanani amivo mi-2 ukuya kwi-99 abe zizininzi ze-10 kunye nemivo. Chonga uze uxele ixabiso lendawo lomvo ngamnye. 	<p>Qalisa ukuqonda ixabiso lendawo elimi kuyo inani ubuncinane amanani amivo mi-2 ukuya kwi-99.</p> <ul style="list-style-type: none"> Cazulula amanani amivo mi-2 ukuya kwi-99 abe zizininzi ze-10 kunye nemivo. Chonga uze uxele ixabiso lendawo lomvo ngamnye. 	<p>Qaphela ixabiso lendawo ame kuyo amanani amivo mi-3 ukuya ku-999.</p> <ul style="list-style-type: none"> Cazulula amanani amivo mi-3 ukuya kwi-999 abe zizininzi ze-100, zibe zizininzi ze-10 kunye nemivo. Chonga uze uxele ixabiso lendawo lomvo ngamnye.
<p>1.6 Iindlela ngeendlela kusombulula iingxaki zezibalo</p>	<p>Sebenzisa iindlela ngeendlela ezilandelayo ukuya kutsho kwi-10:</p> <ul style="list-style-type: none"> Izixhobo eziphathekayo, umzekelo, ilkhawunta / izixhobo zokubala. 	<p>Sebenzisa iindlela ngeendlela ezilandelayo xa usombulula iingxaki zezibalo nokuchaza izisombululo kwiingxaki zezibalo:</p>	<p>Sebenzisa iindlela ngeendlela ezilandelayo xa usombulula iingxaki zezibalo nokuchaza izisombululo kwiingxaki zezibalo:</p>	<p>Sebenzisa iindlela ngeendlela ezilandelayo xa usombulula iingxaki zezibalo nokuchaza izisombululo kwiingxaki zezibalo:</p>

ISHILOKO	IBANGA LABAQUALAYO	IBANGA LOKU-1	IBANGA LESI-2	IBANGA LESI-3
<p>1.6 Iindlela ngeendlela zokusombulula iingxaki zezibalo</p>	<ul style="list-style-type: none"> Ileli yamanani aphaathekayo. 	<ul style="list-style-type: none"> Izixhobo eziphathekayo, umzekelo, iikhawunta / izixhobo zokubala. Imifanekiso yokuzoba ibali ngezibalo. Ukwakha nokucaculula amanani. Ukuphindaphinda nokwahlulahlula amanani. Imigca-manani. 	<ul style="list-style-type: none"> Imizobo okanye izixhobo eziphathekayo, umzekelo, iikhawunta / izixhobo zokubala. Ukwakha nokucaculula amanani. Ukuphindaphinda nokwahlulahlula amanani. Imigca-manani. 	<ul style="list-style-type: none"> Ukwakha nokucaculula amanani. Ukuphindaphinda nokwahlulahlula amanani. Imigca-manani. Ukuwelisela inani kumashumi.
<p>1.7 Ukudibanisa okuthabatha.</p>	<p>Sombulula iingxaki zokubala izibalo (amabali ngezibalo) ngokusemholweni ucacisa isisombululo sakho kwiingxaki zezibalo kuquka ukudibanisa nokuthabatha ngeempendulo ukuya kutsho kwi-10.</p>	<p>Sombulula iingxaki zokubala izibalo (amabali ngezibalo) ngokusemholweni ucacisa isisombululo sakho kwiingxaki zezibalo kuquka ukudibanisa nokuthabatha ngeempendulo ukuya kutsho kuma-20.</p>	<p>Sombulula iingxaki zokubala izibalo (amabali ngezibalo) ngokusemholweni ucacisa isisombululo sakho kwiingxaki zezibalo kuquka ukudibanisa nokuthabatha ngeempendulo ukuya kutsho kuma-99.</p>	<p>Sombulula iingxaki zokubala izibalo (amabali ngezibalo) ngokusemholweni ucacisa isisombululo sakho kwiingxaki zezibalo kuquka ukudibanisa nokuthabatha ngeempendulo ukuya kutsho kwi-100.</p>
<p>1.8 Ukudibanisa okuphindiweyo okukhokelela kuphindaphindo lwamanani.</p>	<p>Sombulula iingxaki zokubala izibalo (amabali ngezibalo) ngokusemholweni ucacisa isisombululo sakho kwiingxaki zezibalo kuquka ukudibanisa nokuthabatha ngeempendulo ukuya kutsho kuma-20.</p>	<p>Sombulula iingxaki zokubala izibalo (amabali ngezibalo) ngokusemholweni ucacisa isisombululo sakho kwiingxaki zezibalo kuquka ukudibanisa nophindaphindo oluneempendulo ukuya kuma-50.</p>	<p>Sombulula iingxaki zokubala izibalo (amabali ngezibalo) ngokusemholweni ucacisa isisombululo sakho kwiingxaki zezibalo kuquka ukudibanisa ngeempendulo ukuya kwi-100.</p>	<p>Sombulula iingxaki zokubala izibalo (amabali ngezibalo) ngokusemholweni ucacisa isisombululo sakho kwiingxaki zezibalo kuquka ukudibanisa ngeempendulo ukuya kwi-100.</p>
<p>1.9 Ukwamaqela nokwaba ngokulinga okukhokelela kulwahlulwa-hlulo.</p>	<p>Sombulula uze ucacise izisombululo kwizibalo zamagama ngokusemholweni (izibalo zamazwi) eziquka ukwaba ngokulinganayo, ukwahlula ngokwamaqela ngamanani azeleyo ukuya kutsho kwi-10 kunye neempendulo ezinokuquka iintsalela.</p>	<p>Sombulula uze ucacise izisombululo kwizibalo abazenza ngokwabo abafundi kuquka ukwaba ngokulinganayo nokwahlula ngokwamaqela amanani azeleyo ukuya kutsho kuma-20 kunye neempendulo eziquka iintsalela.</p>	<p>Sombulula uze ucacise izisombululo kwizibalo abazenza ngokwabo abafundi kuquka ukwaba ngokulinganayo nokwahlula ngokwamaqela ukuya kutsho kwi-100 kunye neempendulo ezinokuquka iintsalela.</p>	<p>Sombulula uze ucacise izisombululo kwizibalo abazenza ngokwabo abafundi kuquka ukwaba ngokulinganayo nokwahlula ngokwamaqela ukuya kutsho kwi-100 kunye neempendulo ezinokuquka iintsalela.</p>
<p>1.10 Ukwaba ngokulinganayo okukhokelela kumaqhezu.</p>	<p>Sombulula uze ucacise izisombululo kwizibalo abazenza ngokwabo abafundi kuquka ukwaba ngokulinganayo nokwahlula ngokwamaqela amanani azeleyo ukuya kutsho kuma-50 kunye neempendulo eziquka iintsalela.</p>	<p>Sombulula uze ucacise izisombululo kwizibalo abazenza ngokwabo abafundi kuquka ukwaba ngokulinganayo nokwahlula ngokwamaqela amanani azeleyo ukuya kutsho kuma-50 kunye neempendulo eziquka iintsalela.</p>	<p>Sombulula uze ucacise izisombululo kwizibalo abazenza ngokwabo abafundi kuquka ukwaba ngokulinganayo nokwahlula ngokwamaqela amanani azeleyo ukuya kutsho kuma-50 kunye neempendulo eziquka iintsalela.</p>	<p>Sombulula uze ucacise izisombululo kwizibalo abazenza ngokwabo abafundi kuquka ukwaba ngokulinganayo nokwahlula ngokwamaqela amanani azeleyo ukuya kutsho kuma-50 kunye neempendulo eziquka iintsalela.</p>

ISHILOKO	IBANGA LABAQUALAYO	IBANGA LOKU-1	IBANGA LESI-2	IBANGA LESI-3
<p>1.11 Imali</p>	<p>Phuhlisa ulwazi ngemali eziinkozo/ engumwangalala nengamaphepha yebhanki yaseMzantsi Afrika.</p>	<ul style="list-style-type: none"> Qaphela uze ufundise ngemali eziinkozo yaseMzantsi Afrika (i-5c, i-10c, i-20c, i-50c, i-R1, i-R2, i-R5) kunye nemali engamaphepha eyi-R10 nama-R20. Sombulula iingxaki zemali eziquka iitotali netshintshi ye-R20 kunye neesenti ukuya kuma-20c. 	<ul style="list-style-type: none"> Qaphela uze ufundise ngemali eziinkozo yaseMzantsi Afrika (i-5c, i-10c, i-20c, i-50c, i-R1, i-R2, i-R5) kunye nemali engamaphepha eyi-R10, i-R20 nama-R50. Sombulula iingxaki zezemali eziquka iitotali netshintshi ye-R99 kunye neesenti ukuya kuma-90c. 	<ul style="list-style-type: none"> Qaphela uze ufundise ngemali eziinkozo yaseMzantsi Afrika kunye nemali engamaphepha. Sombulula iingxaki ezingemali eziquka iitotali netshintshi ngokweerandi okanye iisenti. Guqula phakathi kweerandi neesenti.
<p>IZIBALO EZINGALAWULWA-MEKO</p>				
<p>1.12 Ubuchule bokubala (lindela)</p>		<p>Sebenzisa iindlela ngeendlela ezilandelayo zokubala xa usenza izibalo:</p> <ul style="list-style-type: none"> Imizobo okanye izixhobo eziphathekayo, umzekelo, iikhawunta / izixhobo zokubala. Ukwakha nokucaculula amanani. Ukuphindaphinda nokwahlulahlula amanani. Imigca-manani. 	<p>Sebenzisa iindlela ngeendlela ezilandelayo zokubala xa usenza izibalo:</p> <ul style="list-style-type: none"> Imizobo okanye izixhobo eziphathekayo, umzekelo, iikhawunta / izixhobo zokubala. Ukwakha nokucaculula amanani. Ukuphindaphinda nokwahlulahlula amanani. Imigca-manani. Ukuwelisa inani kumashumi. 	<p>Sebenzisa iindlela ngeendlela ezilandelayo zokubala xa usenza izibalo:</p> <ul style="list-style-type: none"> Ukwakha nokucaculula amanani. Ukuphindaphinda nokwahlulahlula amanani. Imigca-manani. Ukuwelisa inani kumashumi.
<p>1.13 Ukudibanisa nokuthabatha.</p>	<p>Sombulula iingxaki zokudibanisa nokuthabatha ngomlomo nezisombululo ukuya kutsho kwi-10.</p>	<ul style="list-style-type: none"> Dibanisa ukuya kuma-20. Thabatha ukusuka kuma-20. Sebenzisa iisimboli ezifanelekileyo (+, -, =, □) Qhelanisa iibhondi zamanani ukuya kwi-10. 	<ul style="list-style-type: none"> Dibanisa ukuya kuma-99. Thabatha ukusuka kuma-99. Sebenzisa iisimboli ezifanelekileyo (+, -, =, □). Qhelanisa iibhondi zamanani ukuya kuma-20. 	<ul style="list-style-type: none"> Dibanisa ukuya kuma-999. Thabatha ukusuka kuma-999. Sebenzisa iisimboli ezifanelekileyo (+, -, =, □). Qhelanisa iibhondi zamanani ukuya kuma-30.
<p>1.14 Ukudibanisa ngokuphinda phindiweyo okukhokelela kuphindaphindo lwamanani.</p>		<ul style="list-style-type: none"> Dibanisa inani elinye ngokuphinda phindiweyo ukuya kutsho kuma-20. Sebenzisa iisimboli ezifanelekileyo (+, -, =, □). 	<ul style="list-style-type: none"> Phindaphinda amanani ngo-1 ukuya kwi-10 ngo-2, 5, 3 kunye no-4 kwitotali engama-50. Sebenzisa iisimboli ezifanelekileyo (+, -, =, □). 	<ul style="list-style-type: none"> Phindaphinda ngalo naliphi inani ngo-2, 3, 4, 5, 10 ukuya kwitotali eli-100. Sebenzisa iisimboli ezifanelekileyo (x, □).

ISIHLOKO	IBANGA LABAQAALAYO	IBANGA LOKU-1	IBANGA LESI-2	IBANGA LESI-3
<p>1.15 Ukwahlulahlula.</p>				<ul style="list-style-type: none"> Hlulahlula amanani ukuya kuma-99 ngo-2, 3, 4, 5, 10. Sebenzisa iisimboli ezifanelekileyo (+, =, □).
<p>1.16 Izibalo zentloko.</p>		<p>Ingqiqo ngamanani: Uluhlu lwama-20.</p> <ul style="list-style-type: none"> Xela inani phambi nasemva kwenani elinikiweyo. Cwangcisa iseti enikiweyo yamanani akhethiweyo. Thelekisa amanani ukuya kutsho kuma-20 uze uxele ukuba u-1 kunye no-2 ungaphantsi okanye ungaphezulu. 	<p>Ingqiqo ngamanani: Uluhlu lwama-99.</p> <ul style="list-style-type: none"> Cwangcisa iseti enikiweyo yamanani akhethiweyo. Thelekisa amanani ukuya kutsho kuma-99 uze uxele ukuba u-1, 2, 3, 4, 5 kunye no-10 ungaphantsi okanye ungaphezulu. 	<p>Ingqiqo ngamanani: Uluhlu lwama-999.</p> <ul style="list-style-type: none"> Cwangcisa iseti enikiweyo yamanani akhethiweyo. Thelekisa amanani ukuya kutsho kuma-999 uze uxele ukuba u-1, 2, 3, 4, 5 kunye ne-10 ungaphantsi okanye ungaphezulu.
		<p>Ukukhumbula ngokukhawuleza:</p> <ul style="list-style-type: none"> Izinto eziyinyaniso ngokudibanisa nokuthabatha ukuya kwi-10 	<p>Ukukhumbula ngokukhawuleza:</p> <ul style="list-style-type: none"> Izinto eziyinyaniso ngokudibanisa nokuthabatha ukuya kuma-20. Dibanisa okanye uthabathe izininzi ze-10 ukusuka kwi-0 ukuya kwi-100. 	<p>Ukukhumbula ngokukhawuleza:</p> <ul style="list-style-type: none"> Khumbuza ngezinto eziyinyaniso ngokudibanisa nokuthabatha ukuya kuma-20. Dibanisa okanye uthabathe izininzi zika-10 ukusuka kwi-0 ukuya kwi-100. Izinto eziyinyaniso ngophindaphindo: <ul style="list-style-type: none"> - 2 lithayimtheyibhile ka-2 eneempendulo ukuya kutsho kuma-20. - 10 lithayimtheyibhile ze-10 eneempendulo ukuya kutsho kwi-100 Izinto eziyinyaniso ngokwahlulahlula amanani: <ul style="list-style-type: none"> - Ukuya kutsho kuma-20 kohlulwe ngo-2 - Ukuya kutsho kwi-100 kohlulwe nge-10

ISIHLOKO	IBANGA LABAQUALAYO	IBANGA LOKU-1	IBANGA LESI-2	IBANGA LESI-3
<p>1.17 Amaqhezu.</p>		<p>Iindlela zokubala</p> <ul style="list-style-type: none"> • Sebenzisa iindlela zokubala ukudibanisa nokuthabatha ngokukuko: • Beka inani elikhudlwana kuqala ukuze ubale ukuya phambili okanye ngasemva. • Umgca-manani. • Ukuphindaphinda nokwahlulahlula amanani. • Ukwakha nokucazulula amanani. 	<p>Iindlela zokubala</p> <ul style="list-style-type: none"> • Sebenzisa iindlela zokubala ukudibanisa nokuthabatha ngokukuko: • Beka inani elikhudlwana kuqala ukuze ubale ukuya phambili okanye ngasemva. • Umgca-manani. • Ukuphindaphinda nokwahlulahlula amanani. • Ukwakha nokucazulula amanani. • Sebenzisa ulwalamano phakathi kokudibanisa nokuthabatha. 	<p>Iindlela zokubala</p> <ul style="list-style-type: none"> • Sebenzisa iindlela zokubala ezilandelayo: • Beka inani elikhudlwana kuqala ukuze ubale ukuya phambili okanye ubuya umva. • Umgca-manani. • Ukuphindaphinda nokwahlulahlula amanani. • Ukwakha nokucazulula amanani. • Sebenzisa ulwalamano phakathi kokudibanisa nokuthabatha. • Sebenzisa ulwalamano phakathi kokuphindaphinda nokwahlulahlula.
			<ul style="list-style-type: none"> • Sebenzisa uze uxele amaqhezu e-unitary (unitary fractions) ngokwemixholo eqhelekileyo kuquka iziqingatha, iikota, izibhozo, izithandathu, izihlanu, izithathu nezine. • Qaphela amaqhezu ngokodidi lomzobi. 	<ul style="list-style-type: none"> • Sebenzisa uze uxele amaqhezu e-unitary (unitary fractions) ngokwemixholo eqhelekileyo kuquka iziqingatha, iikota, izibhozo, izithandathu, izihlanu, izithathu nezine. • Qaphela amaqhezu ngokodidi lomzobo. • Qala ukuqaphela ukuba iziqingatha ezibini okanye ezithathu zezithathu zenza enye epheleleyo kunye nesiqingatha esinye kunye neekota ezimbini ziyalingana. • Bhala amaqhezu njengesiqingatha esi-1, nezithathu ezi-2.

AMAGQABANTSHINTSHI ESIGABA ESISEKO

2. IIPATENI, ISIPHUMO SENTSEBENZISWAMO YAMANANI / IFANKSHINI NE-AJIBRA

Inkqubela-phambili kwiipateni, iifankshini/ ifankshini ne-ajibra.

- Kwiipateni, kwiifankshini ne-ajibra, sinika abafundi amathuba:
 - Okugqibezela nokwandisa iipateni ezimelwe ziimo ezahlukeneyo.
 - ukukhetha nokuchaza iipateni.
- Ukuchaza iipateni sisiseko sabafundi kwisiGaba esiPhakathi ukuchaza imithetho ngeepateni. Oku kwenziwa ngokuseSikweni kumsebenzi we-ajibra kwisiGaba esiPhezulu.

ISIHLOKO	IBANGA LABAQUALAYO	IBANGA LOKU-1	IBANGA LESI-2	IBANGA LESI-3
2.1 Iipateni zejiyometri	<p>Ukukhuphela nokwandisa</p> <ul style="list-style-type: none"> • Ukukhuphela nokwandisa iipateni ezilula usebenzisa izinto nemizobo (umzekelo, ukusebenzisa imibala neemilo). 	<p>Ukukhuphela, ukwandisa nokuchaza.</p> <ul style="list-style-type: none"> • Ukukhuphela, ukwandisa nokuchaza amagama. • Iipateni ezilula ezenziwe ngezinto eziphathekayo. • Iipateni ezilula ezenziwa ngemizobo yemigca, iimilo okanye izinto. <p>Ukuyila iipateni zakho.</p> <ul style="list-style-type: none"> • Ukuyila iipateni zakho zejiyometri. • Ngezinto eziphathekayo. • Ngokuzoba imigca, iimilo okanye izinto. 	<p>Ukukhuphela, ukwandisa nokuchaza.</p> <ul style="list-style-type: none"> • Ukukhuphela, ukwandisa nokuchaza amagama. • Iipateni ezinzima ezenziwe ngezinto eziphathekayo. • Iipateni ezinzima ezenziwa ngemizobo yemigca, iimilo okanye izinto. <p>Ukuyila nokuchaza iipateni zakho.</p> <ul style="list-style-type: none"> • Ngezinto eziphathekayo. • Ngokuzoba imigca, iimilo okanye izinto. 	<p>Ukukhuphela, ukwandisa nokuchaza.</p> <ul style="list-style-type: none"> • Ukukhuphela, ukwandisa nokuchaza amagama. • Iipateni ezinzima ezenziwe ngezinto eziphathekayo. • Iipateni ezinzima ezenziwa ngemizobo yemigca, iimilo okanye izinto. <p>Ukuyila nokuchaza iipateni zakho.</p> <ul style="list-style-type: none"> • Ngezinto eziphathekayo. • Ngokuzoba imigca, iimilo okanye izinto.
2.2 Iipateni zamanani		<p>Iipateni ezisirhangqileyo</p> <p>Ukukhetha, ukuchaza ngamagama nokukhuphela iipateni zejiyometri</p> <ul style="list-style-type: none"> • Kwindalo, • Kubomi bemihla ngemihla, • Kwimveli yethu yenkcubeko. 	<p>Iipateni ezisirhangqileyo</p> <p>Ukukhetha, ukuchaza ngamagama nokukhuphela iipateni zejiyometri</p> <ul style="list-style-type: none"> • Kwindalo, • Kubomi bemihla ngemihla, • Kwimveli yethu yenkcubeko. 	<p>Iipateni ezisirhangqileyo</p> <p>Ukukhetha, ukuchaza ngamagama nokukhuphela iipateni zejiyometri.</p> <ul style="list-style-type: none"> • Kwindalo, • Kubomi bemihla ngemihla, • Kwimveli yethu yenkcubeko.

AMAGQABANTSHINTSHI ESIGABA ESISEKE
3. ISITHUBA NEMILO (LIYOMETRI)

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
<p>Ukuqhubeka kwindawo nemo</p> <p>Undoqo wokuqhubeka kwindawo nemo kungaphunyezwa ngoku:</p> <ul style="list-style-type: none"> • bethelela kwiipropati neempawu zemo nezinto kwiBanga ngalinye; kunye • nokusuka efundeni kolwimi lwendawo nokudityaniswa kwezimvo ezahlukeneyo kwangalaa nto ekufundeni nasekulandeni indlela kwiimephu ezingekho seSikweni. 	<p>Ulwimi lwendawo</p> <p>Chaza indawo yento malunga nenye umz. ngaphezulu kwenye, ngaphambili, ngasemva, ekunene, ekhohlo, phantsi, phezulu, ecaleni</p> <p>Indawo -bume nesalathiso</p> <p>Landela izalathiso ukuhamba-hamba eklasini</p>	<p>Ulwimi lwendawo</p> <p>Chaza indawo yento malunga nenye umz. ngaphezulu kwenye, ngaphambili, ngasemva, ekunene, ekhohlo, phantsi, phezulu, ecaleni</p> <p>Indawo-bume nembonakalo</p> <ul style="list-style-type: none"> • Qonda ze udibanise iimbongakalo ezahlukeneyo ngezinto ezifanayo yonke imihla 	<p>Ulwimi lwendawo</p> <p>Chaza indawo yento malunga nenye umz. ngaphezulu kwenye, ngaphambili, ngasemva, ekunene, ekhohlo, phantsi, phezulu, ecaleni</p> <p>Indawo-bume nembonakalo</p> <ul style="list-style-type: none"> • Qonda ze udibanise iimbongakalo ezahlukeneyo ngezinto ezifanayo yonke imihla 	<p>Indawo-bume nembonakalo</p> <ul style="list-style-type: none"> • Qonda ze udibanise izimvo ezahlukeneyo ngezinto ezifanayo yonke imihla • Xela into yemihla ngemihla njengoko kuboniswe ubume bayo obungaqhelekanga • Funda, toluka, ze uzobe iimephu ezingekho seSikweni okanye izimvo eziphezulu zengqokelela yezinto. • Khangela izinto kwimephu <p>Indawo nesalathiso</p> <ul style="list-style-type: none"> • Landela izalathiso ukuhamba-hamba eklasini nasesikolweni . • Nika izalathiso zokuhamba-hamba eklasini nasesikolweni. • Landela izalathiso ukusuka kwenye indawo uye kwenye kwimephu engekho seSikweni

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
<p>3.2 Izinto ezinokwakheka kuka 3-D</p>	<p>Uluudwe/ uluhlu lwezinto Khumbula ze uxele izinto ezinokwakheka kuka 3-D eklasini</p> <ul style="list-style-type: none"> • limilo ezibubhola, • limilo ezibubhokisi 	<p>Uluudwe/ uluhlu lwezinto Khumbula ze uxele izinto ezinokwakheka kuka 3-D eklasini nasemifanekisweni</p> <ul style="list-style-type: none"> • limilo ezibubhola (into engqukuva eqinileyo) • limilo ezibubhokisi 	<p>Uluudwe/ uluhlu lwezinto Khumbula ze uxele izinto ezinokwakheka kuka 3-D eklasini nasemifanekisweni</p> <ul style="list-style-type: none"> • limilo ezibubhola (into engqukuva eqinileyo) • limilo ezibubhokisi (into ebonakala ngokufanayo) • lisilinda / imibhobho • iiphiramidi • iikhowuni 	<p>Uluudwe/ uluhlu lwezinto Khumbula ze uxele izinto ezinokwakheka kuka 3-D eklasini nasemifanekisweni</p> <ul style="list-style-type: none"> • Imilo ezibubhola (into engqukuva eqinileyo) • limilo ezibubhokisi (into ebonakala ngokufanayo) • lisilinda / imibhobho • iiphiramidi • iikhowuni
	<p>impawu zezinto Chaza, hlela uze uthelekise izinto ezinokwakheka kuka 3-D malunga:</p> <ul style="list-style-type: none"> • nobungakanani • umbala • izinto eziqengqelekayo • izinto ezitshibilikayo 	<p>impawu zezinto Chaza, hlela uze uthelekise izinto ezinokwakheka kuka 3-D malunga:</p> <ul style="list-style-type: none"> • nobungakanani • umbala • izinto eziqengqelekayo • izinto ezitshibilikayo 	<p>impawu zezinto Chaza, hlela uze uthelekise izinto ezinokwakheka kuka 3-D malunga:</p> <ul style="list-style-type: none"> • nobungakanani • izinto eziqengqelekayo • izinto ezitshibilikayo 	<p>impawu zezinto Chaza, hlela uze uthelekise izinto ezinokwakheka kuka 3-D malunga:</p> <ul style="list-style-type: none"> • limilo ezinokwakheka kuka 2-D ezenza iibuso zezinto ezinokwakheka kuka 3-D • izinto ezisicaba nezigosogoso
	<p>Imisebenzi yokubethelela • sebenzisa izinto ezinokwakheka kuka 3-D ezifana nebhloko zokwakha, ukuvuselela ngokutsha, njalo njalo ukwakha amalungu ezinto umz iithawa, iibhulorho, njalo njalo.</p>	<p>Imisebenzi yokubethelela • Qaphela ze wakhe izinto ezinokwakheka kuka 3-D ozinikweyo usebenzisa imathiriyeli ephathekayo efana nebhloko zokwakha, ukuvuselela neekiti zokwakha</p>	<p>Imisebenzi yokubethelela • Qaphela ze wakhe izinto ezinokwakheka kuka 3-D ozinikweyo usebenzisa imathiriyeli ephathekayo efana nemisikwa ezinokwakheka kuka 2-D, ukuvuselela, ikiti zokwakha nezinye izinto ezinokwakheka kuka 3-D ezinemigca neembombo -</p>	<p>Imisebenzi egxininiswayo • Qaphela ze wakhe izinto ezinokwakheka kuka 3-D ozinikweyo usebenzisa imathiriyeli ephathekayo efana nemisikwa ezinokwakheka kuka 2-D, udongwe, micinga yokuvungula, imicinga yokusela (izitro) nezinye izinto ze 3-D ezinemigca nembobo</p>

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
<p>3.3 Imilo enokwakheka kuka 2-D</p>	<p>Uluhlu lweemilo Chaza, hlela ze uthelekise iimilo ezinokwakheka kuka 2-D/ imifanekiso ngokwezi zinto:</p> <ul style="list-style-type: none"> • Ubungakanani • Umbala • Imilo eyimigca nembombo 	<p>Uluhlu lweemilo Qonda/khumbula ze uxele iimilo ezinokwakheka kuka 2-D</p> <ul style="list-style-type: none"> • Izangqa • oonxantathu • izikwere <p>Iimpawu zemilo Chaza, hlela ze uthelekise iimilo ezinokwakheka kuka 2-D malunga:</p> <ul style="list-style-type: none"> • nobungakanani • umbala • amacala athe ngqo • izangqa 	<p>Uluhlu lweemilo Qonda/khumbula ze uxele iimilo ezinokwakheka kuka 2-D</p> <ul style="list-style-type: none"> • Izangqa • oonxantathu • izikwere • iingxande <p>Iimpawu zemilo Chaza, hlela ze uthelekise iimilo eyi 2-D malunga:</p> <ul style="list-style-type: none"> • nemilo • amacala athe ngqo • izangqa <p>Ukuzoba imilo</p> <ul style="list-style-type: none"> • Izangqa • oonxantathu • izikwere • iingxande 	<p>Uluhlu lweemilo Qonda/khumbula ze uxele iimilo ezinokwakheka kuka 2-D</p> <ul style="list-style-type: none"> • Izangqa • oonxantathu • izikwere • iingxande <p>Iimpawu zemilo Chaza, hlela ze uthelekise iimilo eyi 2-D malunga:</p> <ul style="list-style-type: none"> • nemilo • amacala athe ngqo • izangqa <p>Ukuzoba imilo</p> <ul style="list-style-type: none"> • Izangqa • oonxantathu • izikwere • iingxande
<p>3.4 Ulingano-macala (isimetri)</p>	<p>Ulingano-macala (Isimetri) • Ukukhumbula isimetri emzimbeni wakho</p>	<p>Ulingano-macala (Isimetri) • khumbula isimetri emzimbeni wakho</p> <ul style="list-style-type: none"> • khumbula ze wakhe umgca wesimetri kwiimilo ezinokwakheka kuka 2-D enemigca neembombo nengenayo 	<p>Ulingano-macala (Isimetri) • khumbula ze wakhe umgca wesimetri kwiimilo ezinokwakheka kuka 2-D enemigca neembombo nengenayo</p>	<p>Ulingano-macala (Isimetri) • khumbula ze wakhe umgca wesimetri kwiimilo ezinokwakheka kuka 2-D enemigca neembombo nengenayo</p> <ul style="list-style-type: none"> • Yenza umgca wesimetri ngephepha elisongiweyo

AMAGQABANTSHINTSHI ESIGABA ESISISEKO
4. UMLINGANISELO

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
<p>Ukuqhuba noMlinganiselo</p> <ul style="list-style-type: none"> • Undoqo wokuqhuba nomlinganiselo kumaBanga jikelele ungaphunyezwa ngokuqalwa kwe: <ul style="list-style-type: none"> - Milo/ iifomu ezintsha zomlinganiselo - Izixhobo ezitsha zomlinganiselo, ukuqala ngezixhobo ezingekho seSikweni ze udliulele kwezo ziseSikweni kubaBanga lesi- 2 nelesi-3 - Iiyunithi ezintsha zomlinganiselo ngakumbi kumaBanga elesi -2 nelesi-3. • Ubalo nokusombulula iingxaki ngomlinganiselo makuthabathele ingqalelo ubungakanani bomsebenzi osele wenziwe. 	<p>Ukuqingqa ixesha Ukuthetha malunga nokudlula kwexesha</p> <ul style="list-style-type: none"> • Ukuthetha ngezinto ezenzeke emini nezo zenzeka ebusuku • Abafundi balandelelanisa iziganeko ezenzeke ngexesha lasemini • Ukulandelelanisa iziganeko ezenzeke rhoqo ebomini babo. 	<p>Ukuqingqa ixesha Ukuthetha malunga nokudlula kwexesha</p> <ul style="list-style-type: none"> • Ukulandelelanisa iziganeko ezenzeke rhoqo ebomini babo. • Ukuthlekisa ubude bexesha usebenzisa ulwimi umz. ende, emifutshane, ekhawulezayo necothayo. • Ukulandelelanisa iziganeko usebenzisa ulwimi umz. izolo, namhlanje, ngomso. 		

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
<p>4.1 Ixesha</p>		<p>Ukuxela ixesha</p> <ul style="list-style-type: none"> • Chaza ukuba into yenzeke xesha nini umz. kusasa, emva kwemini, ebusuku, kwangoko/ngethuba, kade • Xela ze ulandelelanise iintsuku zeveki neenyanga zonyaka • Bhala iintsuku zokuzalwa kwikhalenda 	<p>Ukuxela ixesha</p> <ul style="list-style-type: none"> • Xela ze ulandelelanise iintsuku zeveki neenyanga zonyaka • Bhala iintsuku zokuzalwa, iminyhadala yenkolo, iintsuku zeholide, iziganeko zembali, iziganeko zesikolo ngokwekhalenda • Ixesha ngosuku, ngeziqendu zeeyure, umkhono weyure 	<p>Ukuxela ixesha</p> <ul style="list-style-type: none"> • Funda imihla yekhalenda • Bhala iintsuku zokuzalwa, iminyhadala yenkolo, iintsuku zeholide, iziganeko zembali, iziganeko zesikolo ngokwekhalenda • Xela ixesha ngokosuku <ul style="list-style-type: none"> - Iiyure - Iziqendu zeyure - Umkhono weyure - Imizuzu • iwotshi yosiba newotshi edanyazayo, umz. Ixesha leselula <p>Bala ubude bexesha nokuhamba kwalo</p> <ul style="list-style-type: none"> • Sebenzisa ikhalenda ukubala nokuchaza ixesha: <ul style="list-style-type: none"> - ngosuku, - ngeeveki - neenyanga • Sebenzisa iwotshi ukubala ubude bexesha: <ul style="list-style-type: none"> - Iiyure - Iziqendu zeyure - Umkhono weeyure.

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
<p>4.2 Ubude</p>	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Thelekisa ze ulandelelanise ubude, umphakamo okanye ububanzi bezinto ezimbini nangaphezulu ngokuzibeka zibe calanye. Sebenzisa ulwimi ukuthetha malunga nokuthlekisa umz ende, emfutshane, nebanzi 	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Thelekisa, thatha umlinganiselo, thelekelela, landelelanisa ze urekhodishe ubude usebenzisa imlinganiselo ongekho seSikweni umz umlinganiselo ngesandla, izantya, ubude bepensile nekhawunta. Chaza ubude bezinto ngokubala nokuxela ubude beeyunithi ezingekho seSikweni 	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Qikelela, thatha umlinganiselo, thelekisa, landelelanisa ze urekhodishe ubude usebenzisa imlinganiselo ongekho seSikweni umz umlinganiselo ngesandla, izantya, ubude bepensile nekhawunta. Chaza ubude bezinto ngokubala nokuxela ubude beeyunithi ezingekho seSikweni <p>Ukwazisa umlinganiselo oseSikweni</p> <ul style="list-style-type: none"> Qikelela, thatha umlinganiselo, thelekisa, landelelanisa ze urekhodishe ubude usebenzisa iimitha (usenokusebenzisa izinti okanye imisonto) njengeeyunithi zobude eziseSikweni. 	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Qikelela, thatha umlinganiselo, thelekelela, landelelanisa ze urekhode ubude usebenzisa imlinganiselo ongekho seSikweni umz umlinganiselo ngesandla, izantya, ubude bepensile nekhawunta Chaza ubude bezinto ngokubala nokuxela ukuba zingaphi iyunithi ezingekho seSikweni nobude bazo <p>Ukwazisa umlinganiselo oseSikweni</p> <ul style="list-style-type: none"> Qikelela, thatha umlinganiselo, thelekisa, landelelanisa ze urekhodishe ubude usebenzisa iimitha (usenokusebenzisa izinti okanye imisonto) njengeeyunithi zobude eziseSikweni. Qikelela ze ulinganisele ubude ngeesentimitha usebenzisa irula. Akukho nguqulelo zifunekayo phakathi kweemitha neesentimitha

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
<p>4.3 Umthamo</p>	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Thelekisa ze ulandelelanise ubude bezinto ezimbini nangaphezulu ngokuziva ngesandla okanye usebenzise isikali sokulungelelanisa Sebenzisa ulwimi ukuthetha malunga nothelekiso umz ilula, inzima, ilulana, inzinyana 	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Qikelela, thatha umlinganiselo, thelekisa, landelelanisa, ze urekhodishe ubuninzi usebenzisa isikali nemilinganiselo ongekho seSikweni umz ibloksi, izitena Chaza ubude bezinto ngokubala nokuxela ubude beeyunithi ezingekho seSikweni Sebenzisa ulwimi ukuthetha malunga nothelekiso umz ilula, inzima, ilulana, inzinyana 	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Qikelela, thatha umlinganiselo, thelekisa, landelelanisa, ze urekhodishe ubuninzi usebenzisa isikali nemilinganiselo ongekho seSikweni umz ibloksi, izitena Chaza ubude bezinto ngokubala nokuxela ubude beeyunithi ezingekho seSikweni Sebenzisa ulwimi ukuthetha malunga nothelekiso umz ilula, inzima, ilulana, inzinyana <p>Ukwazisa umlinganiselo oseSikweni</p> <ul style="list-style-type: none"> Thelekisa, ulandelelanise ze urekhodishe ubuninzi bezinto ezilungiselelwe intengiso ezinobunzima obuxelwe ngeekhilogram kuphela umz u2 kg werayisi no1kg womgubo Thatha umlinganiselo umlinganiselo wobubanzi babo ngeekhilogram yokuhlambela 	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Qikelela, thatha umlinganiselo, thelekisa, landelelanisa, ze urekhodishe ubuninzi usebenzisa isikali nemilinganiselo ongekho seSikweni umz ibloksi, izitena. Chaza ubude bezinto ngokubala nokuxela ubude beeyunithi ezingekho seSikweni Sebenzisa ulwimi ukuthetha malunga nothelekiso umz ilula, inzima, ilulana, inzinyana Ukwazisa umlinganiselo oseSikweni Thelekisa, landelelanisa, ze urekhodishe ubuninzi bezinto ezilungiselelwe intengiso ezinobunzima obuxelwe ngeekhilogram: u2 kg werayisi no1kg womgubo ligrem umz. 500 grams yetyuwa Thatha umlinganiselo umlinganiselo wobubanzi babo ngeekhilogram usebenzisa isikali sendlu yokuhlambela Akukho nguqulelo phakathi kweegrem nekhilogram
	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Thelekisa ze ulandelelanise umlinganiselo wobubanzi (ubuninzi ngokomthamo) kwizikhongozeli ezibini ezibekwe ngokusondeleleneyo. Abafunda bajonga ngokugalela kwisikhongozeli sesithathu xa kuyimfuneko. Thelekisa ze ulandelelanise umlinganiselo wobubanzi onokuthwalwa zizikhongozeli ezimbini xa zigwaliswe. (ubuninzi) 	<p>Umlinganiselo ongekho seSikweni</p> <ul style="list-style-type: none"> Thelekisa ze ulandelelanise umlinganiselo wobubanzi (ubuninzi ngokomthamo) kwizikhongozeli ezimbini ezibekwe ngokusondeleleneyo. Abafundi bajonga ngokugalela kwisikhongozeli sesithathu xa kuyimfuneko. Thelekisa ze ulandelelanise umlinganiselo wobubanzi onokuthwalwa zizikhongozeli ezimbini xa zigwaliswe. (ubuninzi) 	<p>Umlinganiselo ongekho seSikweni</p>	<p>Umlinganiselo ongekho seSikweni</p>

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
<p>4.4</p> <p>Umthamo/ Ivolumu</p>	<ul style="list-style-type: none"> • Sebenzisa ulwimi ukuthetha malunga nokuthlekisa izinto umz ngaphezulu, kancinci, izele, ayinanto 	<ul style="list-style-type: none"> • Qikelela, thatha umlinganiselo, thelekisa, landelelanisa, ze urekhodishe ubude usebenzisa imilinganiselo engekho seSikweni umz amacephe neekomityi • Chaza ubuninzi besikhongozeli ngokubala nokuxela ukuba zingaphi iyunithi ezingekho seSikweni ukugwalisa isikhongozeli umz ibhotile inobuninzi beekomityi ezine 	<ul style="list-style-type: none"> • Qikelela, thatha umlinganiselo, thelekisa, landelelanisa, ze urekhodishe ubuninzi bomthamo wezikhongozeli (ubuninzi bomthamo wesikhongozeli xa ugwalisiwe) ngokusebenzisa imilinganiselo engekho seSikweni umz amacephe neekomityi • Chaza ubuninzi besikhongozeli ngokubala nokuxela ukuba zingaphi iyunithi ezingekho seSikweni ukugwalisa isikhongozeli umz ibhotile inobuninzi beekomityi ezine. • Umlinganiselo ongekho seSikweni • Qikelela, thatha umlinganiselo, thelekisa, landelelanisa, ze urekhodishe ubuninzi bezinto ngomlinganiselo weelitha • Thelekisa, ulandelelanise ze urekhodishe ubuninzi bezinto ezilungiselelwe iintengiso ezinobunziba obuxelwe ngeelitha umz iilitha ezimbini zobisi, iilitha enye yesiselo esibandayo, iilitha ezintlanu zepeyinti 	<ul style="list-style-type: none"> • Qikelela, thatha umlinganiselo, thelekisa, landelelanisa, ze urekhodishe ubuninzi bomthamo wezikhongozeli (ubuninzi bomthamo wesikhongozeli xa ugwalisiwe) ngokusebenzisa imilinganiselo engekho seSikweni umz amacephe neekomityi • Chaza ubuninzi besikhongozeli ngokubala nokuxela ukuba zingaphi iyunithi ezingekho seSikweni ukugwalisa isikhongozeli umz ibhotile inobuninzi beekomityi ezine. • Umlinganiselo ongekho seSikweni • Qikelela, thatha umlinganiselo, thelekisa, landelelanisa, ze urekhodishe ubuninzi bezinto ngomlinganiselo weelitha • lihafu zelitha neekota zelitha • Thelekisa, ulandelelanise ze urekhodishe ubuninzi bezinto ezilungiselelwe iintengiso ezinobunziba obuxelwe ngeelitha <p>Akukho nguqulelo phakathi kweegrem nekhilogrem, iimiliitha neelitha</p>
<p>4.5</p> <p>Umjikelezo nommandla</p>				<p>Umjikelezo nommandla</p> <p>Phanda ngomgama ophakathi kweemilo ezinokwakheka kuka 2-D neyi-3-D usebenzisa uthelekiso okanye iyunithi ezingekho seSikweni.</p> <p>Umandla</p> <p>Phanda i-eriya usebenzisa uthayilisho</p>

AMAGQABANTSHINTSHI ESIGABA ESISEKO

5. INDLELA YOKUSEBENZA NGOLWAZI OLUQOKELELWEYO

Ukuqhubeka kwindlela yokusebenza ngolwazi oluqokelelweyo

- Undoqo wokuqhubeka kwindlela yokusebenza ngolwazi oluqokelelweyo kumaBanga jikelele lungaphunyezwa ngoku:
- Ukuqhubela phambili ngokuSebenza ngoLwazi oluQokelelweyo (ulwazi) kuwo onke amaBanga okufezekiswa ngolu hlobo:
 - Ukusuka ekusebenziseni kwento uye kusebenzisa ulwazi / ulwazi; kunye
 - Nokusebenza needom ezintsha zomelo-lwazi lwedatha.
- Abafundi mabasebenze umjikelo ophelileyo wedatha ubuncinane kanye nongyaka – oku kuquka ukuqokelelwa nokulungisa ulwazi, ukumela ulwazi, ukuhlahlala/ukucalula, ukutolika nokunika ingxelo ngedatha.
- Ezinye zezi nkangeleko zingentla zedatha zingenziwa njengemisebenzi ekhethekileyo.

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
5.1 Qokelela ze uhlele izinto	Ukuqokelela nokulungisa izinto Qokelela ze uhlele izinto eziphathekayo zemihla ngemihla	Ukuqokelela nokulungisa izinto Qokelela ze uhlele izinto eziphathekayo zemihla ngemihla		
5.2 Ukumela/ukubonakalisa ingqokelela ehleliweyo yezinto	Ukumela/ukubonakalisa ingqokelela ehleliweyo yezinto Zoba umfanekiso wengqokelela yezinto (pictograph)	Ukumela/ukubonakalisa ingqokelela ehleliweyo yezinto Zoba umfanekiso wengqokelela yezinto		
5.3 Ukuxoxa nokunika ingxelo ngengqokelela ehleliweyo yezinto	Ukuxoxa nokunika ingxelo ngengqokelela ehleliweyo yezinto Ukuphendula imibuzo emalunga: • Nokuba ingqokelela ihlelwe njani • Ukuzoba ingqokelela	Ukuxoxa nokunika ingxelo ngengqokelela ehleliweyo yezinto • Nika izizathu zokuba ingqokelela ihlelwe njani • Ukuphendula imibuzo emalunga - Nokuba uhlelo lwenziwe njani (inkqubo) - Ibonakala njani le ngqokelela ehleliweyo(imveliso) • Chaza ingqokelela okanye/ umzobo • Cacisa ukuba le ngqokelela ihlelwe njani		

ISIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
<p>5.4 Ukuqokelela nokulungisa ulwazi</p>		<p>Ukuqokelelo nokulungisa ulwazi</p> <ul style="list-style-type: none"> • Qokelela ulwazi emalunga neklasi okanye isikolo ukuphendula imibuzo ebuzwa ngutitshala 	<p>Ukuqokelelo nokulungisa ulwazi</p> <ul style="list-style-type: none"> • Qokelela ulwazi emalunga neklasi okanye isikolo ukuphendula imibuzo ebuzwa ngutitshala • Lungiselela ulwazi ngokungqinelana kwazo 	<p>Ukuqokelelo nokulungisa ulwazi</p> <ul style="list-style-type: none"> • Qokelela ulwazi emalunga neklasi okanye isikolo ukuphendula imibuzo ebuzwa ngutitshala • Lungiselela ulwazi enikezelwe ngutitshala okanye incwadi yomfundi • Lungiselela ulwazi ngoko <ul style="list-style-type: none"> - Uluhlu - Ngokungqinelana - kwetheyibhile
<p>5.5 Ukubonakalisa ulwazi</p>		<p>Ukubonakalisa ulwazi</p> <p>Ukubonakalisa igrafu yemifanekiso (picto graph) ejongene no-1 ukuya ku-1 kuphela</p>	<p>Ukubonakalisa ulwazi</p> <p>Ukubonakalisa igrafu yemifanekiso, ejongene no-1 ukuya ku-1 kuphela</p>	<p>Ukubonakalisa ulwazi</p> <ul style="list-style-type: none"> • Lungiselela ulwazi ngokwe <ul style="list-style-type: none"> - igrafu yemifanekiso, ejongene no-1 ukuya ku-1 kuphela - igrafu yezitena (bar graph)
<p>5.6 Ukucalula nokutolika ulwazi</p>		<p>Ukucalula nokutolika ulwazi</p> <p>Phendula imibuzo emalunga nedatha yegrafu yemifanekiso ejongene no-1 ukuya ku-1 kuphela</p>	<p>Ukucalula nokutolika ulwazi</p> <p>Phendula imibuzo emalunga nedatha yegrafu yemifanekiso ejongene no-1 ukuya ku-1 kuphela</p>	<p>Ukucalula nokutolika ulwazi</p> <p>Phendula imibuzo emalunga nolwazi enikezelweyo</p> <ul style="list-style-type: none"> • igrafu yemifanekiso ejongene no-1 ukuya ku-1 kuphela • igrafu yezitena

3.3 INKCAZELO NGOMXHOLO

Kweli candela lenkcazelo ngomxholo utitshala unikwe oku kulandelayo:

- Amagqabantshintshi ekota eBanga labaQalayo ukuya kwiBanga lesi- 3.
- Ingcebiso ngendlela yokulandelelanisa izihloko ngokweekota: ayiyiyo yonke imiba yezihloko emayifundiswe kwikota nganye. Eminye imiba yezihloko kufuneka ifundisiwe kuqala phambi kokuba kufundiswe eminye.
- Ingcebiso ngexesha emalithathwe ukufundisa izihloko ezithile apha enyakeni. Ixesha emalithathwe ukufundisa umxholo othile liyohluka - omnye umxholo ufuna ixesha elininzi kunomnye.
- Ingcaciso nemigaqo yokufundisa enemizekelo apho kuyimfuneko.

Ummandla womxholo ngamnye wohlulwe wazizihloko. Yonke imimandla yomxholo kufuneka ifundiswe kwikota nganye. Ukulandelelaniswa kwezihloko ngokweekota kunika uluvo lokuba izihloko zingasasazwa njani kwaye zingahlaziywa njani apha enyakeni. Akuyomfuneko ukuba zifundiswe kwikota nganye zonke izihloko zezithuba, iimilo nomlinganiselo wokusebenza ngolwazi oluqokelelwayo. Kodwa ke zonke ezinye izihloko mazifundiswe unyaka wonke.

Kwisahluko sesi-2 (umhlathi 2.6) indlela yokuthatha umlinganiselo umxholo inikiwe. Xa oku kudityaniswe neeyure zonyaka (jonga kumhlathi we-3.5 ngasezantsi) unokuthi ukwazi ukubala iiyure eziqingqiweyo zommandla womxholo ngamnye.

Ootitshala banokukhetha indlela yokulandelelanisa nexesha emalithathwe kumxholo ngamnye ngendlela eyahlukileyo, oko bekwenza ngokweengcebiso abazifumene kwesi sahluko. Oko kukuthi ootitshala Bangalitshintsha kancinci ixesha ebelicityisiwe elabelwe isihloko eso kodwa ke makuqatshelwe umlinganiselo neeyure ezimiselweyo zommandla womxholo weMathematika wesiGaba esisisiSeko.

- **IMathematika yeBanga labaQalayo** yimilo yeMathematika yabaQalayo kwaye ke ayohlulwanga ngokwamaxesha esifundo. Utitshala weBanga labaQalayo makadibanise iMathematika kwizifundo zemihla ngemihla kodwa ke ixesha malibekwe bucala apho utitshala aqwalasela ngokukodwa kwimisebenzi yeMathematika. Ukuba akakwenzi oku abafundi abasayi kuye bazazi kwaye bavelise **iingqiqo nezakhono ezinqwenelekayo**.
- Ixesha lamaBanga oku-1 - 3 labiwe ngolu hlobo:
 - **Iiyure ezisixhenxe ngeveki (10 iiveki x 4 iikota x 7 iiyure = 280 iiyure ngonyaka) kufuneka iiyure ezisixhenxe ngeveki zisetyenziselwe iMathematika)**
 - Isifundo ngasinye seMathematika kufuneka sibe **iiyure e-1, imizuzu engama-24 ngosuku kwiBanga loku-1 ukuya kwelesi-3**
 - **Oku kuthetha ukuba kukho iikota ezine ezineeveki ezilishumi ezinezifundo ezintlanu (Ukusuka ngomvulo ukuya kutsho ngolwesihlanu) ngeveki.**
 - Vumela ithuba elingangeveki ukulungiselela ukuqhelanisa nokuqinisa ukuqala kwikota nganye kuba abantwana abancinci bayakulibala oko bakufundisiweyo ngakumbi ngexesha leholide kwaye bayaphuma kwisingqi sesikolo. Vumela iveki ekupheleni kwikota ukuqinisa iingqiqo. Oku kunika $8 \times 4 \times 5 = 160$ zezifundo.

3.4 UKULANDELELANISA NESANTYA SOMXHOLO

Ezi theybhile zilandelayo zinikiwe kwiBanga ngalinye kwiBanga labaqalayo ukuya kwelesithathu (R-3):

- Isantya sezihloko zonyaka (zibonisa ukusasazwa kwezihloko ngokweekota kwaye zicebisa ngokomlinganiselo wexesha emalichithwe kummandla womxholo.
- Ukulandelelana kwezihloko zonyaka (bonisa ukuba izihloko zabiwe ngokweekota kwaye kukho inkqubela phambili yomxholo nezakhono kwikota zonke)
- Ukucaciswa kwamanqaku ngokwesihloko –ezi theybhile zinika ingcaciso ngomxholo nesikhokelo sokufundisa sesihloko ngasinye njengoko silandelelanisiwe ngokweekota.

Iiplani zezifundo – Ukwabiwa kwexesha ngokweekota

Inani sesona sihloko sibalulekileyo kwimathematika yamaBanga asisiseko. Amaxesha amaninzi kwiveki nganye, kwikota kunye nonyaka kugqaliselwa kumanani, izibalo nolwalamano. Ixesho elishiyekileyo malahlulwe kweminye imimandla yomxholo. Isithuba neSimo noMlinganiselo zifuna ixesha nengqwalaselo kunolwazi olusetyenziselwa ukuhlalutya iiPateni, lifankshini ne-Aljibra. Itheybhile engezantsi ibonisa inani lezifundo ezabelwe umxholo nezihloko zeBanga ngalinye kwiiPateni, Isiphumo sentsebebnziswano yamanani ne-Aljibra, Isithuba neSimo. uMlinganiselo, ukusebenza ngoLwazi olusetyenziselwa ukuhlalutya:

Ukwabiwa kommandla womxholo nezihloko kwizifundo zeBanga labaqalayo

Njengoko **kwiBanga labaqalayo** imathematiki ikwimo **yemathematika yabaqalayo** iingcebiso ezilandelayo zokwabiwa kwexesha zinika ugqaliselo kwiziqendu zemathematika nemisebenzi engekho seSikweni ehambelanayo. Oku kukuqinisekisa ukuba zonke iinkalo zomxholo zikhona. Imisebenzi yemathematiki yabaqalayo inokuba kukubala inani lezitya neekomityi zokugalela izimuncumuncu, ukubala imidlalo edlalwa naphandle, imidlalo edlalwa ngaphakathi endlwini umz. Idomino neephazili. Utitshala kufuneka alungise yonke imisebenzi ngokweemfuno zabafundi kunye nezixhobo zokufundisa ezikhoyo egumbini lokufunda.

ISithuba neMilo yimiba ebalulekileyo ekukhuleni kwemathematika kubafundi abancinci kwaye kufuneka isasazwe evekini, kugqalwe kwiziqendu ezithile phantsi kwenkxaso katitshala kunikwe namathuba amaninzi okuba abafundi bakhe izinto, badlale ngesanti namanzi.

Umlinganiselo mawufakwe kwimisebenzi yokubala, umz ukuthelekelela nokubala xa bethatha umlinganiselo umgama ngezandla, ngeenyawo namanqwanqwa.

Irejista yokubhalisa abafundi netshati yemozulu zinika ithuba elininzi lokusebenza **ngolwazi olusetyenziselwa ukuhlalutya**.

Itheyibhile 3.1: Ulwabiwo lwexesha ngeveki ngokommandala womxholo

UMMANDLA WOMXHOLO	ISIHLOKO	Ixesha elinokusetyenziswa
Amanani, ii-Opereyshini noLwalamano	Ukubala Ukuqaphela amanani Chonga aze achaze amanani azeleyo Ulwazi ngamanani Ukusombulula iingxaki zezibalo	Imizuzu eli -120
IiPateni , iiFankshini ne-Aljibra	Kopa, andise aze ayile iipateni zakhe	Imizuzu engama- 80
Isithuba nemilo (Ijyometri)	Nakana, chonga uze axele ukwakheka kweemilo zejyometri / imifanekiso enokwakheka kuka 2-D. Yakha izinto ezinokwakheka kuka 3-D besebenzisa izixhobo eziphathekayo. Ukuzalana ngokwesithuba Izalathiso	Imizuzu engama- 80
Umlinganiselo	Ixesha Ubude Ubunzima Umthamo	Imizuzu engama- 80
Ukusebenza ngolwazi oluqokelelweyo	Qokelela, hlela, zoba, funda uze abonakalise ulwazi	Imizuzu engama- 60
IYURE ZIZONKE		Imizuzu engama- 420 Iiyure ezisi -7 ngeveki

- **Ukwabiwa kwenkalo nezihloko kwizifundo zebanga loku-1 ukuya kwelesi-3**

Izifundo ezintathu ubuncinane ngeveki mazichithwe kufundiswa Amanani, Izibalo, Ukuzalana (umz phakathi kwe 4 ne $\frac{1}{4}$ seeyure). Izifundo ezibini ezishiyekileyo (umz. phakathi $2\frac{1}{2}$ ne 3 seeyure) mazahlulwe phakathi kwezihloko zeminye imimandla yomxholo njengoko kucetyisiwe ngasezantsi.

Itheyibhile 3.2: Inani lezifundo ezicetyiswayo zebanga loku-1 ngekota

UMMANDLA WOMXHOLO	IZIHLOKO	Inani lezifundo				Iiyure zizonke
		Ikota yoku- 1	Ikota yesi- 2	Ikota yei -3	Ikota yesi -4	
Amanani, ii-Opereyshini noLwalamano	Zonke izihloko zaManani, ii-Opereyshini noLwalamano.	22	30	28	25	105
IiPateni , iiFankshini ne-Aljibra	lipateni yamanani	3	3	3	3	12
	lipateni zejyometri	1	1	1	1	4
Isithuba nemilo (Ijyometri)	limilo zokwakheka kwe 2-D		3		3	6
	Ukwakheka kwezinto kuka 3-D	3		2	1	6
	Indawo, fumana indawo apho ikhoyo nembonakalo	2			1	3
	Ulingano macala			1	1	2
Umlinganiselo	Ixesha	2				2
	Ubude	2		2		4
	Ubunzima	2			2	4
	Umthamo	1	2		1	4
Ukusebenza ngolwazi oluqokelelweyo	Ukuqokelela, ukuhlela, abonakalise aze acalule izinto	2	1			3
	Umjikelo opheleleyo wolwazi			3		3
	Izintlu zomjikelo wolwazi				2	2
Izifundo zizonke		40	40	40	40	160

Itheyibhile 3.3: Inani lezifundo ezicetyiswayo zebanga lesi-2 ngekota

UMMANDLA WOMXHOLO	IZIHLOKO	Inani lezifundo				Ilyure zizonke
		Ikota yoku- 1	Ikota yesi- 2	Ikota yei -3	Ikota yesi -4	
Amanani, ii-Opereyshini noLwalamano	Zonke izihloko zaManani, ii-Opereyshini noLwalamano	24	25	24	26	99
IPateni , iiFankshini neAljibra	lipateni yamanani	3	3	3	3	12
	lipateni zejijometri	1	1	1	1	4
Isithuba nemilo (IJiyometri)	limilo zokwakheka kuka 2-D		3		3	6
	Ukwakheka kwezinto kuka 3-D	3		2	1	6
	Indawo, fumana indawo apho ikhoyo nembonakalo		2	1		3
	Ulingano-macala		1		1	2
Umlinganiselo	Ixesha	3	1	3	1	8
	Ubude	3			1	4
	Ubunzima		3		1	4
	Umthamo			3	1	4
Ukusebenza ngolwazi oluqokelelweyo	Umjikelo opheleleyo wolwazi	3		3		6
	Izintlu zomjikelo wolwazi		1		1	2
Izifundo zizonke		40	40	40	40	160

Itheyibhile 3.4: Inani lezifundo ezicetyiswayo zebanga lesi-3 ngekota

UMMANDLA WOMXHOLO	IZIHLOKO	Inani lezifundo				Ilyure zizonke
		Ikota yoku- 1	Ikota yesi- 2	Ikota yei -3	Ikota yesi -4	
Amanani, ii-Opereyshini noLwalamano	Zonke izihloko zaManani, ii-Opereyshini noLwalamano	26	22	19	27	94
iiPateni , iiFankshini ne-Aljibra	lipateni yamanani	3	3	3	3	12
	lipateni zejijometri	1	1	1	1	4
Isithuba nemilo (IJiyometri)	limilo zokwakheka kuka 2-D	2		2		4
	limilo zokwakheka kuka 3-D		3	3	1	7
	Indawo, fumana indawo apho ikhoyo nembonakalo		2	3		5
	Ulingano-macala		2		1	3
Umlinganiselo	Ixesha	3	2	3	2	10
	Ubude		2	2		4
	Ubunzima		2		1	3
	Umthamo	2			1	3
	Umjikelo			1		1
	I-eriya				2	2
Ukusebenza ngolwazi oluqokelelweyo	Umjikelo opheleleyo wolwazi	3		3		6
	Izintlu zomjikelo wolwazi		1		1	2
Izifundo zizonke		40	40	40	40	160

AMAGQABANTSHINTSHI EBANGA LABAQLAYO
1. AMANANI,II-OPAREYSHINI NOKUZALANA

UKUBALA				
ISIHLOKO	IKOTA YOKU-1	IKOTA YESI-2	IKOTA YESI-3	IKOTA YESI-4
<p>1.1 Ukubala izinto Qikelela uze ubale izinto ukuvelisa ulwazi ngamanani.</p>	<p>Uluhlu lwanani: 1-5</p> <ul style="list-style-type: none"> Uhambelwano lwamanani <p>Yazisa itshati yoncedo uze ulandelelanise indlela izimuncumuncu ezinikezelwa ngayo</p> <ul style="list-style-type: none"> Bala ngoononye Izixhobo eziphathekayo Amalungu omzimba Ukuqhwaba izandla Ukungqisha Ukunyuka ngamanqwanqwa Bala ngokucengeleza -izicengecelezo zamanani neengoma 	<p>Uluhlu lwamanani: 1-7</p> <ul style="list-style-type: none"> Uhambelwano lwamanani <p>Bethelela itshati yoncedo imihla ngemihla</p> <ul style="list-style-type: none"> Bala ngoononye Izixhobo eziphathekayo Amalungu omzimba Ukuqhwaba izandla Ukungqisha Ukunyuka ngamanqwanqwa Bala ngokucengeleza izicengecelezo zamanani neengoma Qhwaba izandla amaxesha amaninzi/ambalwa 	<p>Uluhlu lwamanani: 1 - 10</p> <ul style="list-style-type: none"> Uhambelwano lwamanani <p>Bethelela itshati yoncedo imihla ngemihla</p> <ul style="list-style-type: none"> Bala ngoononye Izixhobo eziphathekayo Amalungu omzimba Ukuqhwaba izandla Ukungqisha Ukunyuka ngamanqwanqwa Bala ngokucengeleza izicengecelezo zamanani neengoma Qhwaba izandla: amaxesha amaninzi/ambalwa Leliphi inani lokuqhwaba elimbalwa/ elininzi zininzi/zimbalwa, ezona zininzi/ezona zimbalwa 	<p>Uluhlu lwamanani: 0 - 10</p> <ul style="list-style-type: none"> Uhambelwano lwamanani <p>Bethelela itshati yoncedo imihla ngemihla</p> <ul style="list-style-type: none"> Bala ngoononye Izixhobo eziphathekayo Amalungu omzimba Ukuqhwaba izandla Ukungqisha Ukunyuka ngamanqwanqwa Bala ngokucengeleza izicengecelezo zamanani neengoma Qhwaba izandla: amaxesha amaninzi/ambalwa zininzi/zimbalwa, ezona zininzi/ezona zimbalwa
<p>1.2 Bala usiya phambili ubale ubuya umva.</p>	<p>Uluhlu lwamanani: 1</p> <p>Ukubala okungacwangciswanga kusetyenziswa izicengecelezo zamanani neengoma, zokubala, izinto ezinokwakheka kuka 3-D, ukubala usebenzisa iintshukumo zomzimba.</p> <p>Bala:</p> <ul style="list-style-type: none"> ngoononye 	<p>Uluhlu lwamanani: 1 ukuya ku- 4</p> <p>Ukubala okungacwangciswanga kusetyenziswa izicengecelezo zamanani neengoma, izinto zokubala, izinto ezinokwakheka kuka 3-D, ukubala usebenzisa iintshukumo zomzimba neleli yamanani.</p> <p>Bala</p> <ul style="list-style-type: none"> ngoononye 	<p>Uluhlu lwamanani: 1 ukuya ku -7</p> <p>Ukubala okungacwangciswanga kusetyenziswa izicengecelezo zamanani neengoma, izinto zokubala, izinto ezinokwakheka kuka 3-D, ukubala usebenzisa iintshukumo zomzimba neleli yamanani.</p> <p>Bala:</p> <ul style="list-style-type: none"> ngoononye 	<p>Uluhlu lwamanani: 0 ukuya ku -10</p> <p>Ukubala okungacwangciswanga kusetyenziswa izicengecelezo zamanani neengoma, izinto zokubala, izinto ezinokwakheka kuka 3-D, ukubala usebenzisa iintshukumo zomzimba neleli yamanani.</p> <p>Bala:</p> <ul style="list-style-type: none"> ngoononye ngonombini

ISIHLOKO	IKOTA YOKU-1	IKOTA YESI-2	IKOTA YESI-3	IKOTA YESI-4
<p>1.3 Iisimboli zamanani namagama amanani.</p> <p>(Nakana uze uchonge iisimboli zamanani baze baqaphele amagama amanani)</p>	<p>Uluhlu lwamanani:</p> <ul style="list-style-type: none"> • Iisimboli zamanani: 1 • Amagama amanani: nye - Ukufunda usebenzisa umzimba - Eziphathekayo elinokwakheka ka 3 –D ezininani elingu -1. - Ezibubambeka ezinamakhadi emifanekiso equka inani u- 1. - Ezibubambeka ezinamakhadi anamachaphaza aquka inani u- 1. • Bettelela ulwazi alufumeneyo olunenani elingu -1 	<p>Uluhlu lwamanani:</p> <ul style="list-style-type: none"> • Iisimboli zamanani: 2 ukuya kwi - 4 • Amagama amanani: nye , mbini , ne. - Ukufunda usebenzisa umzimba - Eziphathekayo ezinokwakheka kuka - 3 –D ezinamanani 2, 3 no- 4. - Ezibubambeka ezinamakhadi emifanekiso equka amanani 2,3 no- 4. - Ezibubambeka ezinamakhadi anamachaphaza aquka amanani 2,3 no- 4. • Bettelela ulwazi alufumeneyo olunenani elingu -1 ukuya kwisi-4 	<p>Uluhlu lwamanani:</p> <ul style="list-style-type: none"> • Iisimboli zamanani: 5 ukuya kwi -7 • Amagama amanani: ntlanu, ntandathu, sixhenxe - Ukufunda usebenzisa umzimba - Eziphathekayo ezinokwakheka kuka 3 –D ezinamanani 5, 6 no- 7. - Ezibubambeka ezinamakhadi emifanekiso equka amanani 5,6 no- 7. - Ezibubambeka ezinamakhadi anamachaphaza aquka amanani 5,6 no- 7. • Bettelela ulwazi alufumeneyo olunenani elingu -1 ukuya kwisi-7 	<p>Uluhlu lwamanani:</p> <ul style="list-style-type: none"> • Iisimboli zamanani: 0 ukuya kwi - 10 • Amagama amanani: qanda, sibhozo, lithoba, lishumi - Ukufunda usebenzisa umzimba. - Eziphathekayo elinokwakheka ka 3 –D ezinamanani 0,8,9 no 10 - Ezibubambeka ezinamakhadi emifanekiso equka amanani 0,8,9 no- 10. - Ezibubambeka ezinamakhadi anamachaphaza aquka amanani 0,8,9 no- 10. • Bettelela ulwazi alufumeneyo olunenani eli-0 ukuya kwi-10

ISHILOKO	IKOTA YOKU-1	IKOTA YESI-2	IKOTA YESI-3	IKOTA YESI-4
NAKANA AMANANI				
<p>1.4 Chaza, thelekisa uze ucwangcise amanani azeleyo.</p> <p>(Ukusebenzisa amanani kwiimeko eziqhelekileyo)</p>	<p>Sebenzisa amanani kwiimeko eziqhelekileyo</p> <ul style="list-style-type: none"> Abafundi kufuneka bayazi iminyaka yabo Ukugqityezelwa kwerejista yabafundi <p>Sebenzisa iindlela ezininzi zokuthatha irejista Umz.</p> <ul style="list-style-type: none"> Ingaba umfundi onesimboli/ umzobo we- ayisi-khrim ukhona esikolweni namhlanje? Ingaba umfundi ogama linguSipho ukhona esikolweni namhlanje ? Ingaba umfundi ogama linguSipho onefani engu Mathole ukhona esikolweni namhlanje ? <ul style="list-style-type: none"> Chonga amanani asemfanekisweni nakumaqweqwe anamachaphaza Dlala umdlalo wamakhadi amanani 	<p>Sebenzisa amanani kwiimeko eziqhelekileyo</p> <ul style="list-style-type: none"> Abafundi kufuneka bazazi iinombolo zezindlu zakumawabo needilesi zabo Bethelela ukusetyenziswa kwamanani ngokugqibezela irejista njengakwikota yokuqala. umz. Ingaba umfundi ohlala kwindlu enenombolo ye- 123 ukhona esikolweni namhlanje Ingaba umfundi ohlala kwinombolo ye 123 Wendy sitalato ukhona namhlanje ? Ingaba umfundi onenombolo yomnxeba engu 082234567 ukhona esikolweni namhlanje? <ul style="list-style-type: none"> Chonga amanani emfanekisweni nakwiqweqwe elinamachaphaza Dlala umdlalo wamakhadi amanani Chonga amanani kwisibhengezo/ ucwecwe lolwazi,kwicwecwe elidala lomhla wokuzalwa 	<p>Sebenzisa amanani kwiimeko eziqhelekileyo</p> <ul style="list-style-type: none"> Abafundi kufuneka bawazi amagama abo neenombolo zeminxeba zakumawabo/okanye inombolo yeselula (inombolo yabazali babo) Bethelela ukusetyenziswa kwamanani ngokugqibezela irejista njengakwikota yokuqala. umz.ingaba umfundi ubhiyozela umhla wakhe wokuzalwa ngomhla we 16 Matshi ukhona namhlanje? <ul style="list-style-type: none"> Chonga amanani asemfanekisweni nakumaqweqwe anamachaphaza Dlala umdlalo wamakhadi amanani Chonga amanani kwisibhengezo/ ucwecwe lolwazi,kwicwecwe elidala lomhla wokuzalwa 	<p>Sebenzisa amanani kwiimeko eziqhelekileyo</p> <ul style="list-style-type: none"> Bethelela ulwazi malunga neminyaka.inombolo yendlu, idilesi.inombolo yomnxeba yasekhaya/inombolo yeselula. Bethelela ukusetyenziswa kwamanani ngokugqibezela irejista njengakwikota yokuqala umz Bangaphi abafundi abangekhoyo esikolweni namhlanje ? Singakwazi njani oku Abantwana baxoxa ngoku phakathi kwabo. Qashisa; Bala iikhabathi ezingenantso Bala izitulo ezingahlalanga bantu <ul style="list-style-type: none"> Chonga amanani asemfanekisweni nakumaqweqwe anamachaphaza Dlala umdlalo wamakhadi amanani Chonga amanani kwisibhengezo/ ucwecwe lolwazi,kwicwecwe elidala lomhla wokuzalwa

ISHILOKO	IKOTA YOKU-1	IKOTA YESI-2	IKOTA YESI-3	IKOTA YESI-4
INGQIQO NGAMANANI (UKUZALANA)				
<p>Chaza, thelekisa uze ucwangcise amanani (Chonga uze uchaze amanani apheleleyo)</p>	<p>Uluhlu lwamanani: 1</p> <ul style="list-style-type: none"> Chonga uze uchaze amanani apheleleyo ukuya kwi-1 	<p>Uluhlu lwamanani: 1 ukuya kwi-5</p> <ul style="list-style-type: none"> Chonga uze uchaze amanani apheleleyo Amanani apheleleyo 2, 3 nesi-4 Bethelela amanani -1 ukuya kwi-4 	<p>Uluhlu lwamanani: 1 ukuya kwi-7</p> <ul style="list-style-type: none"> Chonga uze uchaze amanani apheleleyo Amanani apheleleyo 5, 6 ne -7 Bethelela amanani -1 ukuya kwi -7 	<p>Uluhlu lwamanani: 0 ukuya - 10</p> <ul style="list-style-type: none"> Chonga uze uchaze amanani apheleleyo 8, 9, 10 ne 0 Bethelela amanani- 0 ukuya kwi -10
<p>Thelekisa ukuba zeziphi ezona kwezi zimbini kwingqokelela yezinto ezi:</p> <ul style="list-style-type: none"> Nkulu nencinci Nkudlwana nencinanana Eyona inkulu neyona incinci (Yazis*a ingqiqo) Lungisa ezingaphezulu kwesibini kwingqokelela yezinto ozinikiweyo ukusuka kweyona incinci ukuya kweyona inkulu kunye nokusuka kweyona inkulu ukuya kweyona incinci 				
<p>a) Nkulu nencinci b) Nkudlwana nencinanana c) Eyona incinci neyona inkulu</p>				
<p>Thelekisa ukuba zeziphi e zimbini kwingqokelela yezinto ezi</p> <ul style="list-style-type: none"> Nkulu kune- Ncinci kune- Lingana ne- 	<ul style="list-style-type: none"> Ninzi nencinane Umz. Ukuqhwaba ngokungaliindelekanga 	<ul style="list-style-type: none"> Nkulu kune-, ncinci kune- lingana ne- Ninzi nencinane Umz. ukuqhwaba ngokungaliindelekanga Ukubuza umbuzo ongowona 	<ul style="list-style-type: none"> Nkulu kune-, ncinci kune- lingana ne- Ninzi nencinane umz. ukuqhwaba ngokungaliindelekanga Ukubuza umbuzo ongowona 	<ul style="list-style-type: none"> Nkulu kune-, ncinci kune- lingana ne- Ninzi nencinane umz. ukuqhwaba ngokungaliindelekanga Ukubuza umbuzo ongowona

ISHILOKO	IKOTA YOKU-1	IKOTA YESI-2	IKOTA YESI-3	IKOTA YESI-4
<p>Inani lolandelelwano/lesingaphi</p>	<p>Ukwakha ukuqwalasela amanani olandelelwano ngokusaphuhliswayo, umzekelo, eyokuqala, eyesibini, eyesithathu.... eyokugqibela, elandelayo.</p> <ul style="list-style-type: none"> • Ukutshayelela ngexesha lokutya lemihla ngemihla nangexesha lokuzikhulula – eyokuqala, eyesibini, eyokugqibela nelandelayo 	<p>Ukwakha ukuqwalasela amanani olandelelwano ngokusaphuhliswayo, umzekelo, eyokuqala, eyesibini, eyesithathu.... eyokugqibela, elandelayo.</p> <ul style="list-style-type: none"> • Ukomeleza amanani olandelelwano ngokusaphuhliswayo ngexesha lokuzikhulula lemihla nemihla • Ukuwasebenzisa nangexesha lemisetiyenzana yezakhono zobomi. • Nangexesha lemisetiyenzana yobuchwepheshe bokuyila (xa kukho imfuneko) 	<p>Ukwakha ukuqwalasela amanani olandelelwano ngokusaphuhliswayo, umzekelo, eyokuqala, eyesibini, eyesithathu.... eyokugqibela, elandelayo.</p> <ul style="list-style-type: none"> • Ukomeleza amanani olandelelwano ngokusaphuhliswayo ngexesha lokuzikhulula lemihla nemihla • Ukuzisebenzisa nangexesha lemisetiyenzana yezakhono zobomi 	<p>Ukwakha ukuqwalasela amanani olandelelwano ngokusaphuhliswayo, umzekelo, eyokuqala, eyesibini, eyesithathu.... eyokugqibela, elandelayo.</p> <ul style="list-style-type: none"> • Ukutshayelela amanani olandelelwano – okokuqala, okwesibini, ukwesithathu, ukuya kokwesithandathu • Ukomeleza amanani olandelelwano ngokusaphuhliswayo ngexesha lokuzikhulula lemihla nemihla • Ukuwasebenzisa nangexesha lemisetiyenzana yezakhono zobomi.
<p>UKUSOMBULULA IINGXAKI NGOKWEMEKO USEBENZISA EZI NDLELA ZILANDELAYO:</p> <p>1.6 Ubuchule bokusombulula iingxaki zezibalo (Ukusebenzisa obu buchule bulandelayo)</p>	<p>Ukusebenzisa ezi ndlela zilandelayo</p> <ul style="list-style-type: none"> • Izixhobo ezibonwayo umzekelo, izinto zokubala 	<p>Ukusebenzisa ezi ndlela zilandelayo</p> <ul style="list-style-type: none"> • Izixhobo eziphathekayo umzekelo, izinto zokubala 	<p>Ukusebenzisa ezindlela zilandelayo</p> <ul style="list-style-type: none"> • Izixhobo eziphathekayo umzekelo, izinto zokubala • Ileli yamanani 	<p>Ukusebenzisa ezindlela zilandelayo</p> <ul style="list-style-type: none"> • Izixhobo eziphathekayo umzekelo, izinto zokubala • Ileli yamanani

ISHILOKO	IKOTA YOKU-1	IKOTA YESI-2	IKOTA YESI-3	IKOTA YESI-4
<p>1.7 Ukudibanisa nokuthabatha</p> <p>Ukusombulula izibalo zomlomo nokucacisa isisombululo efakela okulandelayo:</p> <p>a) Ukudibanisa nokuthabatha ngeempendulo ezifikelela kwi -10</p> <p>1.9 Ukwahlula ngokwamaqela nokwaba ngokulinganayo okukhokelela kulwahlulwa-hlulo.</p> <p>b) Ukwaba ngokulinganayo nangamaqela kumanani apheleleyo ukuya kwi-10 ngeempendulo eziqika intsalela.</p>		<ul style="list-style-type: none"> • Ukusebenzisa izixhobo zokubala nokusombulula izibalo eziqika u-1,-2,-3 no -4 ngokuthetha. • Ukubethelela ukusombululwa kwezibalo eziqika amanani ukusuka kwelo- 1 - 4 	<ul style="list-style-type: none"> • Ukusebenzisa izixhobo zokubala nokusombulula izibalo eziqika u-5,-6, no -7 ngokuthetha. • Ukubethelela ukusombululwa kwezibalo eziqika amanani ukusuka kwelo-1 - 7 	<ul style="list-style-type: none"> • Ukusebenzisa izixhobo zokubala nokusombulula izibalo eziqika u-8,-9, -10 no 0 ngokuthetha. • Ukubethelela ukusombululwa kwezibalo eziqika amanani ukusuka kwelo-1 – 10.

ISHILOKO	IKOTA YOKU-1	IKOTA YESI-2	IKOTA YESI-3	IKOTA YESI-4
<p>1.11 Imali</p>	<p>Imali</p> <ul style="list-style-type: none"> • Velisa ukwazi imali yaseMzantsi Afrika engumwangelala. • 20c, 50c, R1, R2, R5 • Chonga imibala kunye nezilwanyana ezibonakala kwezi nkozo. • Chonga ukufana nomahluko okhoyo kwezi nkozo umz. hlela imali ngokombala nangobukhulu • Banike imali yokudlala kwikona yasekhaya. 	<p>Imali</p> <ul style="list-style-type: none"> • Velisa ukwazi imali yaseMzantsi Afrika engamaphepha • R10, R20, R50, R100, R200, • Chonga ukufana nomahluko okhoyo phakathi kwemali engamaphepha umz. hlela imali ngokombala nangobukhulu • Banike imali yokudlala kwikona yasekhaya. 	<p>Imali</p> <ul style="list-style-type: none"> • Banike imali yokudlala kwikona yasekhaya 	<p>Imali</p>
<p>BALA NGOKUSEBENZISA:</p> <p>1.13 Ukudibanisa nokuthabatha.</p> <p>Ukusombulula izibalo zokudibanisa nokuthabatha ngokuchaziweyo ukuya kwi- 10 ngokuthetha</p>	<p>Ukusombulula izibalo zokudibanisa nokuthabatha ukuya ku -4 ngokuthetha</p>	<p>Ukusombulula izibalo zokudibanisa nokuthabatha ukuya ku -7 ngokuthetha.</p>	<p>Ukusombulula izibalo zokudibanisa nokuthabatha ukuya ku -10 ngokuthetha.</p>	

Iintlobo Zezibalo kwiSigaba sabaQalayo(R)

Izibalo ezimiswayo kubafundi beSigaba sabaQalayo kufuneka kuquke izinto ezisegumbini lokufundela kuphela, umzekelo, izinto zokubala, abantwana, izihlangu, kodwa ingabi ziilekese, imivundla iityatyambo, njalo-njalo. Ayingabo bonke abantwana abancinci abanokuzikhohlisa ngokuthi izibali okanye iminwe yimivundla – badinga izinto ngokwazo. Utishala angasebenzisa imifanekiso kwisiqendu sesibini sonyaka kuphela. Izinto eziphathekayo mazigcinwe – imifanekiso kukongeza, ayithathi indawo yezinto ezibonwayo. Amasetyana angasetyenziswa xa utitshala engenazo izixhobo.

Izibalo ezilandelayo zizekelisa iintlobo zezibalo emazilungelelaniselwe utitshala ukulungela umngangatho wokuqonda wabafundi bakhe.

Ukwahlula ngamaqela

Nanga amaqebengwana $a - 8$. (Utitshala ukhupha izinto zokubala ezi $- 8$, okanye ubonisa umfanekiso wamaqebengwana $a - 8$). UThemba ufumana amaqebengwana $a - 2$ yonk'imihla. Uza kufumana amaqebengwana ngeentsuku ezingaphi ?

Ukwaba ngokulinganayo

Amaqebengwana ama $- 6$. (Utitshala ukhupha izibali ezi $- 6$, okanye ubonisa imifanekiso yamaqebengwana ama $- 6$.) Kufuneka oothedi abathathu babelane ngawo onke amaqebengwana bafumane inani elilinganayo lamaqebengwana. Uthedi ngamnye uza kufumana amaqebengwana amangaphi ?

Ukudibanisa, ukuthabatha, ukudibanisa okuphinda phindiweyo

Abantwana ababini (2) banamehlo amangaphi?

Abantwana abane (4) baneendlebe ezingaphi?

Mingaphi iminwe esandleni esinye (1)?

Mingaphi iminwe kwizandla ezibini (2)?

ULinda unezibali ezintandathu (6). Unika uBandile izibali ezibini (2). Unezibali ezingaphi ngoku?

Ootitshala mabaxube iintlobo zezibalo imihla ngemihla. Mabandise ubukhulu bamanani abawasebenzisayo ngokuthe chu, Bangathathi ngokungathi abafundi abanakho ukusebenza ngamanani amakhulu.

AMAGQABANTSHINTSHI ESIGABA SABAQUALAYO (R)
2.IIPATENI, IIFANKSHINI NOLWALAMANO

ISIHLOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>2.1 Iipateni zejyometri Kopa wandise iipateni ezilula eziphindaphindwayo usebenzisa izinto ezibonwayo nemizobo. (Yila iipateni zakho eziphindaphindwayo)</p>	<ul style="list-style-type: none"> • Chonga iipateni empahleni, kwizinto nakokusingqongileyo • Kopa ugqibezele iipateni • Kopa iipateni usebenzisa ukubethana komzimba • Kopa gcwalisa uyile ezakho iipateni 	<ul style="list-style-type: none"> • Kopa, wandise uyile ezakho iipateni • Kopa iipateni ozinikiweyo usebenzisa imali eziinkozo/ engumwangalala 	<ul style="list-style-type: none"> • Kopa, wandise uyile iipateni yakho ngemifanekiso 	<ul style="list-style-type: none"> • Kopa, wandise uyile iipateni zakho ozimameleyo • Kopa iipateni yengxolo • Iipateni yomdlalo wokungciloza

AMAGQABANTSHINTSHI KWISIGABA SABAQUALAYO(R)

3. ISITHUBA NEMILO (LJIYOMETRI)

ISIHLOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>3.1</p> <p>Indawo-bumilo, ukufurmana indawo apho ikhoyo nembonakalo</p> <p>Ukuchaza into enye enokwakheka kuka 3-D uyinxulumanisa nenye (umzekelo, ngaphambili nangasemva)</p>	<p>Ulwalamano ngokobume</p> <p>Indawo yezinto ezimbini okanye ezininzi ngokunxulumene nomfundi</p> <ul style="list-style-type: none"> • Ngaphambili nangasemva • Phezulu, phezu kwe, ngaphantsi nangezantsi • Ngaphakathi nangaphandle • Phantsi naphezulu • Ecaleni kwe naphakathi kwe <p>Imidlalo yangaphandle ibalulekile. isixhobo sokugwencela singasetyenziswa ukubethelela, umzekelo:</p> <ul style="list-style-type: none"> • Inggqiqo zeMathematika • Ubugcisa bokuyila • Ukwakheka komzimba 	<p>Ulwalamano ngokobume</p> <p>Indawo yezinto ezimbini okanye ezininzi ngokunxulumene nemfundo</p> <ul style="list-style-type: none"> • Ngaphezulu nangaphantsi 	<p>Ulwalamano ngokobume</p> <p>Indawo yezinto ezimbini okanye ezininzi ngokunxulumene nemfundo</p> <ul style="list-style-type: none"> • Ngaphambili nangasemva • Phezulu, phezu kwe, ngaphantsi nangezantsi • Ecaleni kwe • Phakathi • Ekhohlo nasekunene • Umsebenzi wephegibhodi <p>Chaza izinto uzivelela kumacala ngamacala bezibona ngeendlela ezahlukileyo, umzekelo, unodoli, indlu ngaphambili, ngasemva, emacaleni kuxhomekeke ukuba ume ndawoni</p>	<p>Ulwalamano ngokobume</p> <p>Indawo yezinto ezimbini okanye ezininzi ngokunxulumene nemfundo</p> <ul style="list-style-type: none"> • Ngaphambili nangasemva • Phezulu, phezu kwe, ngaphantsi nangezantsi • Ecaleni kwe • Phakathi • Ekhohlo nasekunene <p>Indawo yezinto ezimbini okanye ezininzi ngokunxulumene nemfundo</p> <ul style="list-style-type: none"> • Ngaphambili nangasemva • Phezulu, phezu kwe, ngaphantsi nangezantsi • Ecaleni kwe • Phakathi • Ekhohlo nasekunene • Umsebenzi wephegibhodi • Phambili nasemva
<p>Ulandela izalathiso (eyedwa no/okanye nomnye weqela) ukuzibeka kwisithuba esithile (Inggqiqo yokwalathisa)</p>	<ul style="list-style-type: none"> • Izalathiso -phambili / emva • Imidlalo enje ngokulandela uloliwe • Imiqobo xa ulandela isalathiso • Ukufunda ngemithambo yomzimba nemisetyenzana ngomculo 		<ul style="list-style-type: none"> • Phambili/ emva • Itshati yeentolo 	<ul style="list-style-type: none"> • Phambili nasemva • Phantsi naphezulu • Ngentla nangezantsi • Ekhohlo nasekunene • Siphuma phi isandi?

ISIHLOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>3.2 Izinto ezinokwakheka kuka -3-D Qonda, uchonga nokuthiya izinto ezinokwakheka kuka 3-D egumbini lokufundela: a) Iibhola b) Iibhokisi</p>	<ul style="list-style-type: none"> Iibhola: Fundisa unike ithuba lokusebenza ngeebhola Iibhokisi: Fundisa unike ithuba lokusebenza neebhokisi 			
<p>3.2 Izinto ezinokwakheka kuka -3-D Chaza, uhlele nokuthelekisa izinto ezinokwakheka kuka 3-D no – 2-D ngo: a) Ubungakanani (nkulu/ncinci) b) Mbala (bomvu, bhlowu, mthubi,hlaza) c) Imilo (isangqa, unxa-ntathu, isikwere, uxande) d) Izinto eziqengqelekayo e) Izinto ezitshebelezayo</p>	<ul style="list-style-type: none"> Ukufundisa Itshati Yoqoqosho (ukuhlela izinto zokudlala) Ubungakanani: Hlela izinto ezinokwakheka kuka 3-D ngobukhulu Umbala: hlela izinto ezinokwakheka kuka 3-D no – 2-D ngokwemibala yokuqala Imilo: hlela izinto ezinokwakheka kuka 3-D no 2-D ngokwemilo Izinto eziqengqelekayo <ul style="list-style-type: none"> - Chonga uphonononge izinto eziqengqelekayo - Ukomeleza izinto eziqengqelekayo Izinto ezitshebelezayo <ul style="list-style-type: none"> - Chonga uphonononge izinto ezitshebelezayo - Qonda uphonononge izinto ezitshebelezayo 	<ul style="list-style-type: none"> Hlela ngokufana nangokwahluka Ubungakanani:hlela izinto ezinokwakheka kuka 3-D ngobukhulu Umbala: chonga uhlele izinto zokubala ngemibala ebomvu, ebhlowu, emthubi neluhlaza Imilo: hlela izinto ezinokwakheka kuka 3-D no 2- D ngokwemilo 	<ul style="list-style-type: none"> Ubungakanani: hlela izinto ezinokwakheka kuka 3-D ngobukhulu Umbala: hlela izinto ezinokwakheka kuka 3-D nezimacala-mabini ngokwemibala Imilo: hlela izinto ezinokwakheka kuka 3-D no 2-D ngokwemibala 	<ul style="list-style-type: none"> Ubungakanani: hlela izinto ezinokwakheka kuka 3-D ngobukhulu Umbala: hlela izinto ezinokwakheka kuka 3-D nezimacala-mabini ngokwemibala Imilo: hlela izinto ezinokwakheka kuka 3-D no 2-D ngokwemibala

ISIHLOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>Ukwakha izinto ezinokwakheka kuka 3-D ngokusebenzisa imathiriyeli ephathekayo (umzekelo, iibhloko zokwakha)</p> <p>3.3</p> <p>Imilo ezinokwakheka kuka-2-D.</p> <p>Qonda, uchonga nokuthiya imilo ezinokwakheka kuka 2-D egumbini lokufunda nasemifanekisweni, kuquka:</p> <p>a) Iisimboli zabafundi</p> <p>b) Igama leklasi</p> <p>Ukwakha iiphazili</p> <p>a) Ubuncinane:</p> <p>b) Iikota 1: 6 izijungqe</p> <p>c) Ikota 2: 12 izijungqe</p> <p>d) Ikota 3: 18 izijungqe</p> <p>e) Ikota 4: 24 izijungqe</p>	<p>Iyaqhubeka</p> <ul style="list-style-type: none"> Bonelela ngeebhloko zokwakha nemathiriyeli yokwakha ngexesha lokudlala ngaphakathi yonke imihla Phonononga ngeebhloko zokwakha <p>Iyaqhubeka</p> <ul style="list-style-type: none"> Vumela umfundi ngamnye akhethe ikhadi lakhe lesimboli ngosuku lokuqala Bonisa isimboli/ifoto kwiinyanga ezintathu zokuqala Yazisa igama leklasi, umzekelo, ngokusebenzisa umfanekiso . Leyibhelisha ucango ngegama likatishala . Ileyibhile ebonisa iBanga labaQalayo <p>Iiphazili</p> <ul style="list-style-type: none"> Qalisa ukufundisa iiphazili unike isikhokelo sokwakha iiphazili Xoxa umfanekiso wephazili ngohoyo olulodwa kwiinkcukacha ezifana nombala, abantu/izilwanyana, izinto, ukuma kwabantu/izilwanyana nezinto Abafundi mabagqibe ubuncinane iiphazili enezijungqe ezi-6 ekupheleni kwekota yoku-1. 	<p>Iyaqhubeka</p> <ul style="list-style-type: none"> Bonelela ngeebhloko zokwakha nemathiriyeli yokwakha ngexesha lokudlala ngaphakathi yonke imihla Phonononga ngeebhloko zokwakha <p>Iyaqhubeka</p> <ul style="list-style-type: none"> Bonisa isimboli/ifoto zomfundi negama lomfundi kwiinyanga ezintathu ezilandelayo. Iyaqhubeka <p>Iiphazili (Iyaqhubeka)</p> <ul style="list-style-type: none"> Nika iintlobo ngeentlobo zeeiphazili ngexesha lokudlala ngaphakathi imihla ngemihla. Abafundi mabagqibe ubuncinane iiphazili yezijungqe ezi-12 ekupheleni kwekota yesi- 2. Yila bagwalise eyabo iiphazili yezijungqe ezi – 4 	<p>Iyaqhubeka</p> <ul style="list-style-type: none"> Bonelela ngeebhloko zokwakha nemathiriyeli yokwakha ngexesha lokudlala ngaphakathi yonke imihla Abafundi mabazakhele esabo isakhiwo bekopa kumzekelo onikiweyo Khuphela isakhiwo esifanayo kuyilo okanye ikhadi lomfanekiso Ukomeleza ukukhuphela isakhiwo esifanayo kuyilo okanye ikhadi lomfanekiso <p>Iyaqhubeka</p> <ul style="list-style-type: none"> Bonakalisa igama lomfundi kuphela Kwiinyanga ezintandathu zokugqibela zonyaka Iyaqhubeka <p>Iiphazili (Iyaqhubeka)</p> <ul style="list-style-type: none"> Nika iintlobo ngeentlobo zeeiphazili ngexesha lokudlala ngaphakathi imihla ngemihla Abafundi mabagqibe ubuncinane iiphazili yezijungqe ezi-18 ekupheleni kwekota yesi- 3 Yila bagwalise eyabo iiphazili yezijungqe ezi – 5 	<p>Iyaqhubeka</p> <ul style="list-style-type: none"> Bonelela ngeebhloko zokwakha nemathiriyeli yokwakha ngexesha lokudlala ngaphakathi yonke imihla Iyaqhubeka ngexesha lokudlala ngaphakathi <p>Iyaqhubeka</p> <ul style="list-style-type: none"> Bonakalisa igama lomfundi kuphela Kwiinyanga ezintandathu zokugqibela zonyaka Iyaqhubeka <p>Iiphazili (Iyaqhubeka)</p> <ul style="list-style-type: none"> Nika iintlobo ngeentlobo zeeiphazili ngexesha lokudlala ngaphakathi imihla ngemihla Abafundi mabagqibe ubuncinane iiphazili yezijungqe ezingama -24 ekupheleni kwekota yesi- 4.

ISHILOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>3.3 limilo ezinokwakheka kuka-2-D. Ukuqwalasela okuthile limilo zejyometri</p> <p>a) Isangqa b) Unxantathu c) Isikwere d) Uxande e) Ulwazi ngemilo (ukuqinisekisa isimo)</p>	<ul style="list-style-type: none"> Tshayelela ukuqwalasela kokuthile (chonga izinto –“ndibona ngamehlo am amancinane”) Ukubethelela isangqa Ukufundisa isangqa Ukufundisa unxa-ntathu Ukubethelela isikwere 	<ul style="list-style-type: none"> Ukomeleza ukuqwalasela kokuthile ngokuhlela imisetyenzana, ukutshatisa nemisetyenzana yamaqela nexesha lokuqoqosha lemihla ngemihla. Ukubethelela unxa-ntathu Ukukwazi ukuqaphela iimilo kwiimo zonke ezifumaneka kuzo (ukuqinisekisa isimo sikanxa-ntathu) 	<ul style="list-style-type: none"> Ukomeleza ukuqwalasela kokuthile ngokuhlela imisetyenzana, ukutshatisa nemisetyenzana yamaqela nexesha lokuqoqosha lemihla ngemihla. Ukubethelela isikwere Ukukwazi ukuqaphela iimilo kwiimo zonke ezifumaneka kuzo (ukuqinisekisa isimo semilo efundiweyo) 	<ul style="list-style-type: none"> Ukomeleza ukuqwalasela kokuthile ngokuhlela imisetyenzana, ukutshatisa nemisetyenzana yamaqela nexesha lokuqoqosha lemihla ngemihla. Ukubethelela isangqa, unxa-ntathu, isikwere noxande Ukomeleza uxande Ukukwazi ukuqaphela iimilo kwiimo zonke ezifumaneka kuzo (ukuqinisekisa isimo semilo esifundisiweyo)
<p>3.4 Ulingano macala Unakana umgca wolingano –macala kunye noko kumngqongileyo</p>	<ul style="list-style-type: none"> Chonga amalungu omzimba (phantsi kokubala) Intloko, amehlo, impumlo, umlomo, isilevu, intamo, amagxa, ingalo, isandla, iminwe, isifuba, umlenze, idolo, unyawo, iinzwane. Umzimba womntu unamacala amabini bethelela ukuqwalasela ukuba umzimba unamacala amabini, umzekelo, “icala elinye” “nelinye icala” nto leyo ikhokela “kwicala lasekunene necala lasekhohlo” Ukuwela umgca osembindini okubandakanywa kwizibalo. Okungasentla makwenziwe ngexesha lokwakheka komzimba. Ukusebenzisa izicengcelezo neengoma Ngexesha lobugcisa bokuyila 	<ul style="list-style-type: none"> Ukuwela umgca ophakathi-ukwenza intshukumo Sebenzisa ukuwela umgca osembindini ngexesha leZakhono Zobomi (uKwakheka Komzimba) izicengcelezo neengoma Imisetyenzana yobugcisa bokuyila 	<ul style="list-style-type: none"> Ukuwela umgca ophakathi-imisetyenzana yebhodi Sebenzisa ukuwela umgca osembindini ngexesha leZakhono Zobomi (uKwakheka Komzimba) 	<ul style="list-style-type: none"> Ukwakha uqwalaselo lokuba kukho ulingano-macala kwizinto Sebenzisa ukuwela umgca osembindini ngexesha leZakhono Zobomi (uKwakheka Komzimba)

AMAGQABANTSHINTSHI KWISIGABA SABAQUALAYO(R)

4. UMLINGANISELO

ISIHLOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>4.1 Ixesha: Chaza ixesha losuku ngokwe- imini okanye ubusuku .</p>	<ul style="list-style-type: none"> • Fundisa isigama "imini no-busuku" ne "ukukhanya/ubumnyama " • Ekuseni, emva kwemini, ebusuku (ukufunda ngokungekho se-Sikweni ngexesha lenkqubo yemihla ngemihla netshati yemozulu) 			
<p>Ukulandelelanisa iziganeko ezenzeka rhoqo ebomini bakho bemihla ngemihla. a) Inkqubo Yemihla ngemihla b) Itshati Yemozulu</p>	<ul style="list-style-type: none"> • Ukuqalisa inkqubo Yemihla ngemihla <ul style="list-style-type: none"> - abafundi banikwa ithuba lokulandelelanisa iziganeko ezenzeka emini . - Imifanekiso iboniswa ukusuka ngasekhohlo ukuya ekunene ukwakha icala uqala kulo xa ufunda - Inkokheli yosuku ihambisa utolo olushukunyiswayo ngokwemisetyenzana ekwinkqubo yemihla ngemihla . • Ukufundisa Itshati Yemozulu (yonke imihla) <ul style="list-style-type: none"> - Utitshala ukhokela abafundi ukwazi igama losuku, umhla nenyanga ngegoma nangemvano-siphelo, oonotsheluzi nokubonisa iileyibhile neesimboli kwikhalenda ebonisa iveki - Ukwakha uqwataselelo lwesigama sexesha . - Ukubonisa iintsuku zokuzalwa, ukuphuma, iintsuku ezibalulekileyo, iintsuku zokuphumla phakathi evekini . - Ukulandelelanisa iinyanga zonyaka ngegoma. 	<ul style="list-style-type: none"> • Inkqubo Yemihla ngemihla (iyaqhubeka) <ul style="list-style-type: none"> - Ukubethelela ukulandelelanisa iziganeko ezenzeka ngosuku kwinkqubo yemihla ngemihla • Itshati yemozulu (yonke imihla) <ul style="list-style-type: none"> - Utitshala ukhokela abafundi ukwazi igama losuku, umhla nenyanga ngegoma nangemvano-siphelo, oonotsheluzi nokubonisa iileyibhile 	<ul style="list-style-type: none"> • Inkqubo Yemihla ngemihla (iyaqhubeka) <ul style="list-style-type: none"> - Ukubethelela ukulandelelanisa iziganeko ezenzeka ngosuku kwinkqubo yemihla ngemihla • Itshati yemozulu (yonke imihla) <ul style="list-style-type: none"> - Utitshala ukhokela abafundi ukwazi igama losuku, umhla nenyanga ngegoma nangemvano-siphelo, oonotsheluzi nokubonisa iileyibhile 	<ul style="list-style-type: none"> • Inkqubo Yemihla ngemihla (iyaqhubeka) <ul style="list-style-type: none"> - Ukubethelela ukulandelelanisa iziganeko ezenzeka ngosuku kwinkqubo yemihla ngemihla • Itshati yemozulu (yonke imihla) <ul style="list-style-type: none"> - Abafundi bazi usuku , umhla nenyanga ngoonotsheluzi babonise iileyibhile neesimboli kwikhalenda yeveki .

ISHILOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>4.1</p> <p>Ixesha:</p> <p>Ukulandelelanisa iziganeko ezenzeka rhoqo ebomini bakho bemihla ngemihla.</p> <p>c) Iintsuku zeveki</p> <p>d) Itshati yamaxesha onyaka</p> <p>Ukufundisa itshati ngokweentsuku zokuzalwa</p>	<ul style="list-style-type: none"> • Iintsuku zeveki <ul style="list-style-type: none"> - Utitshala ufundisa abafundi ingoma okanye imvano-siphelo ngeentsuku zeveki. Phinda yonke imihla xa ku xoxwa ngetshati yemozulu - Ukulandelelanisa iintsuku zeveki ngengoma • Itshati yamaxesha onyaka <ul style="list-style-type: none"> - Ukutshayelela itshati ebonisa amaxesha amane onyaka ngokubonisa: <ul style="list-style-type: none"> o IHlobo o UKwindla o Ubusika o Intwasa-hlobo 	<ul style="list-style-type: none"> • Iintsuku zeveki (iyaqhubeka) <ul style="list-style-type: none"> - Utitshala ufundisa abafundi ingoma okanye imvano-siphelo ngeentsuku zeveki. Phinda yonke imihla xa ku xoxwa ngetshati yemozulu • Itshati yamaxesha onyaka <ul style="list-style-type: none"> - Usiba olubonisa ixesha lonyaka iyahanjiswa xa kutshintsha amaxesha onyaka - Ngosuku lokuqala emva kweeholide z esikolo utitshala makabuze abafundi ukuba bebesenza ntoni ngexesha leeholide - Ukwakha uqwalaselo lokwenziwayo ngumfundi ukusukela xa evuka ukuya xa esiya esikolweni . - Ukwakha uqwalaselo ngokwenzekileyo phakathi kwexesha lesidlo sasebusuku nelokulala . • Kuyaqhubeka qho xa kulusuku lomfundi lokuzalwa • Iyaqhubeka 	<ul style="list-style-type: none"> • Iintsuku zeveki (iyaqhubeka) • Itshati yamaxesha onyaka <ul style="list-style-type: none"> - Usiba olubonisa ixesha lonyaka iyahanjiswa xa kutshintsha amaxesha onyaka - Ngosuku lokuqala emva kweeholide zesikolo utitshala makabuze abafundi ukuba bebesenza ntoni ngexesha leeholide • Kuyaqhubeka qho xa kulusuku lomfundi lokuzalwa • Iyaqhubeka 	<ul style="list-style-type: none"> • Iintsuku zeveki (iyaqhubeka) • Itshati yamaxesha onyaka <ul style="list-style-type: none"> - Usiba olubonisa ixesha lonyaka iyahanjiswa xa kutshintsha amaxesha onyaka - Ngosuku lokuqala emva kweeholide zesikolo utitshala makabuze abafundi ukuba bebesenza ntoni ngexesha leeholide • Kuyaqhubeka qho xa kulusuku lomfundi lokuzalwa • Iyaqhubeka

ISIHLOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>4.2 Ubude Ukuthelakisa nokulandelelanisa izinto ngokuziphatha usebenzisa isigama esisiso sokuchaza ubude.</p> <ul style="list-style-type: none"> • Baqalise itshati yobude - Linganisa ngezandla (ngokubonwayo nangokumayana) - Ukulinganisa ngemizila yeenyawo (ngokubonwayo nangokumayana) - Ukulinganisa ngetheyipi yukulinganisa (ngokubonwayo nangokumayana) - De, futshane - Ndana, futshanana - Mde.mdana (ngokubonwayo) - Qikelela. 	<p>Ubude</p> <ul style="list-style-type: none"> • Ubude nobufutshane, ukuba mdana nokuba mde (ngokubonwayo). • Ukutshayelela isigama sobude. • Itshati yobude ngezandla/iinyawo 	<p>Ubude</p> <ul style="list-style-type: none"> • Ende kakhulu nemfutshane kakhulu, endana, emfutshanana (ukuphicotha ubude). • Ukubethelela isigama sobude . • Abafundi bakhangelela ukuba bakhulile na oko kwikota ephelileyo <i>(abafundi bangathelekisa ubude babo kwinto ekhoyo eklasini, umzekelo, ikhabhathi)</i> 	<p>Ubude</p> <ul style="list-style-type: none"> • Qikelela ubude bezinto ezahlukileyo. • Qikelela ulinganise izinto ezahlukileyo usebenzisa iinyawo, izandla, umsonto, uluthi, njalo-njalo. 	<p>Ubude</p> <ul style="list-style-type: none"> • Linganisa ubude bomfundi ngetheyipi yokulinganisa <i>(sebenzisa izandla endaweni yetheyipi yokulinganisa).</i>

ISIHLOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>4.3</p> <p>Ubunzima</p> <p>Thelekisa, ulandelelanise izinto ngokuziphatha usebenzisa isigama ukuchaza okulandelayo:</p> <p>a) Lula, nzima b) Lulana, nzinyana c) Iyaqhubeka ngexesha lokudlala ngamanzi nesanti</p>			<p>Ubunzima</p> <ul style="list-style-type: none"> • Fundisa isigama sobunzima ngokuthlekisa ubunzima bezinto ezahlukahlukileyo, umzekelo, <ul style="list-style-type: none"> - Lula/nzima - Lulana/nzinyana • Ukubethelela ubunzima (lulanyana/nzima) 	
<p>4.4</p> <p>Umthamo</p> <p>Thelekisa ulandelelanise izinto ngokuziphatha usebenzisa isigama ukuchaza okulandelayo:</p> <p>a) Ayinanto, izele b) Kakhulu, kancinci c) Phantsi kune, phezulu kune d) Iyaqhubeka ngexesha lokudlala ngamanzi nesanti.</p>			<p>Umthamo</p> <ul style="list-style-type: none"> • Fundisa isigama somlinganiso womthamo ngokuthlekisa umthamo wezikhongozeli ezahlukahlukileyo, umzekelo, <ul style="list-style-type: none"> - "ayinanto/izele - "ninzi kune/ncinci kune • Ukomeleza umthamo 	<p>Umthamo</p> <ul style="list-style-type: none"> • Thelekisa ulandelelanise izinto ngokuphathekayo usebenzisa isigama ukuchaza okulandelayo: <ul style="list-style-type: none"> - Ayinanto/izele - Kakhulu/kancinci - Ncinci kune/ninzi kune - Ninzi /ncinci - Iyaqhubeka ngexesha lokudlala ngamanzi nesanti .


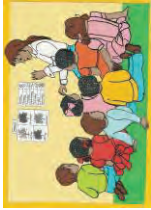







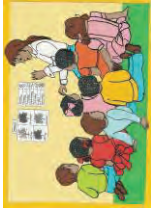






AMAGQABANTSHINTSHI KWISIGABA SABAQALAYO(R)

5. UKUSEBENZA NGOLWAZI OLUQOKELELWEYO

ISIHLOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>5.1 Ukuqokelela nokuhlela izinto. Qokelela ulwazi Qokelela izinto eziphathekayo zodidi olufanayo (emnye okanye/elilungu leqela) umzekelo, amagqabi alishumi, iimilo ezilishumi</p> <p>Ukuhlela nokurekhodisha ulwazi Hlela izinto eziphathekayo ngobunjani, umzekelo, ubungakanani bamagqabi.</p>	<ul style="list-style-type: none"> Fundisa isigama solwazi oluseyenziselwa ukuhlalutya ngokuqokelela ulwazi lwenani lamakhwenkwe nenani lamantombazana abaseklasini Hlela ulwazi ngokumisa abafundi ngokwemigca yamakhwenkwe namantombazana. 	<ul style="list-style-type: none"> Qokelela izinto (izinti ezahlukeneyo ngobukhulu) Hlela izinto eziqokelelweyo (izinti ngobukhulu bazo). 	<ul style="list-style-type: none"> Buza umbuzo: "Ingaba amagama anonoobumba abathandathu ngawo axhaphakileyo?" Qokelela ulwazi ukuphendula usebenzisa oonotsheluzi bamagama. Hlela oonotsheluzi bamagama ngokwenani kwigama ngalinye. 	<ul style="list-style-type: none"> Sebenzisa itshati yokuzalwa ukwazi ukuba lusuku lukabani lokuzalwa olukweyiphi inyanga. Qokelela ulwazi kubafundi ukwazi umbala wodongwe lokudlala lweveki ezayo, umzekelo, bhlowu, mthubi, luhlaza <p>Qokelela ulwazi (abafundi basebenzisa oluphi uhlobo lwesithuthi xa besiza esikolweni)</p> <ul style="list-style-type: none"> Hlela ulwazi ngokweentsuku zokuzalwa zabafundi. Umntwana ngamnye ukhetha ibhloko emela umbala awukhethileyo aza kudlala ngawo evekini Hlela ulwazi oluqokelelweyo (abahamba ngenyawo, ngemoto yabazali, iteksi, okanye ibhasi).
<p>5.2 Ukubonisa ingqokelela ehleliweyo yezinto. (Zoba igrافو ukubonisa ulwazi Zoba umfanekiso nje ngerekhodi yolwazi eqokelelweyo).</p>	<ul style="list-style-type: none"> Sebenzisa igrافو ngebhloko okanye imilo ukubonisa ulwazi. Yenza igrافو ukubonisa ulwazi oluqokelelweyo usebenzisa izitena okanye iimilo 	<ul style="list-style-type: none"> Zoba igrافو yengqokelela yezinto (izinti ngobukhulu bazo). 	<ul style="list-style-type: none"> Zoba igrافو ngokuncamathisela unotsheluzi wegama phantsi kwekholamu efanelekileyo. 	<ul style="list-style-type: none"> Zoba igrافو ebonisa iintsuku zabafundi kwinyanga nganye. Sebenzisa izinto zokwenyani ukwenza igrافو njengebhloko, iityhubhu ezipakishiweyo, iibhokisi zeLego ezimela imibala yodongwe oluza kusetyenziswa, umzekelo, bhlowu, mthubi noluhlaza. Zoba igrافو yemifanekiso ukubonisa abafundi abahamba ngenyawo, abeza ngeteksi, ngeemoto zabazali nabeza ngebhazi.

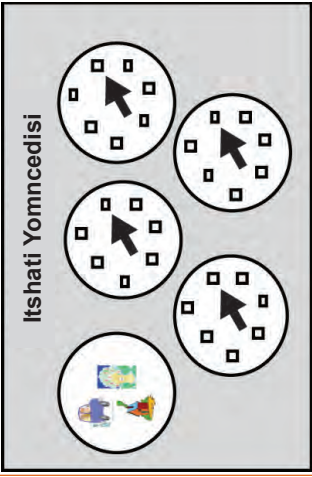
ISIHLOKO	IKOTA YOKU -1	IKOTA YESI -2	IKOTA YESI -3	IKOTA YESI -4
<p>5.3 Ukuxoxa nokunika ingxelo ngengqokelela ehleliweyo ye-zinto. Funda uze utolike utolike igrafu Ukuphendula imibuzo esekelwe kumfanekiso wakho okanye izinto ezihleliweyo, umzekelo, "Uzobe amagqabi amangaphi amakhulu ? Ngawaphi amakhulu kakhulu okanye amancinci?"</p>	<ul style="list-style-type: none"> Funda utolike ulwazi ngokusebenzisa udongwe ukubonisa inani la makhwenkwe nelamantombazana aseklasini. 	<ul style="list-style-type: none"> Funda utolike iigrafu usebenzisa imibuzo 	<ul style="list-style-type: none"> Funda utolike ulwazi ngokubala oonotsheluzi bamagama kwikhohlamu nganye nokufikelela kwisigqibo. 	<ul style="list-style-type: none"> Funda utolike iigrafu usebenzisa imibuzo ukwazi inyanga eneentsuku ezininzi zokuzalwa . Ngokukhethwa ngabafundi umbala wodongwe lokudlala uzakuba mthubi ,umzekelo . Funda utolike iigrafu(Bangaphi abahamba ngeenyawo, abeza ngeteksi, ngebhasi, njalo njalo) .

3.5 AMANQAKU ANGCACISO

IBANGA LABAQLAYO(R) IKOTA YOKU- 1			
Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engekho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engekho ngaphantsi kweshlanu umsebenzi weMathematika ngeveki (± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>Iveki 1</p> <p>Uqhelaniso</p>	<p>Amanqaku angcaciso</p> <p>Ukulandelelanisa iziganeko eziqhubekayo ebomini babo bemihla ngemihla</p> <ul style="list-style-type: none"> • Qala ukufundisa inkqubo yemihla ngemihla <ul style="list-style-type: none"> - Yakha ukulandelelana kweziganeko zosuku olunye. - Imifanekiso mayixhonywe ukusuka ekunene kuye ekhohlo. - Inkokeleli yosuku ihambisa isikhombisi ukusuka ekhohlo ukuya ekunene njengoko imisebenzi yenkqubo yosuku iqhubeka. - Abafundi bafumana amava okulandelelanisa iziganeko ngosuku. 	<p>Inkqubo yemihla ngemihla inikezelwa ngemo yomfanekiso</p>	<p>Ixesha eliqikelelweyo</p> <p>Imihla ngemihla, emva kokwaziswa</p>
INKQUBO YEMIHLA NGEIHILA ECETYISWAYO			
<p>Ukufika</p> 	<p>Irejista, imihla yokuzalwa, imozulu, iindaba</p> 	<p>Umsebenzi weklasi okhokelwa ngutitshala (ucwangcise kwiCAPS), ubugcisa obubonwayo, umdlalo wangaphakathi okhululekileyo</p> 	<p>Amathuba okuya ngasese</p> 
<p>Ixesha lokutya</p> 	<p>umdlalo wangaphandle okhululekileyo nokucoca</p> 	<p>Umsebenzi weklasi okhokelwa ngutitshala (ucwangcise kwiCAPS)</p> 	<p>Amathuba okuya ngasese</p> 
<p>Ukufika</p> 	<p>Ithuba lokucoca</p> 	<p>Umsebenzi weklasi okhokelwa ngutitshala (ucwangcise kwiCAPS)</p> 	<p>Amathuba okuya ngasese</p> 
<p>Ixesha lokutya</p> 	<p>Ixesha lokuphumla</p> 	<p>Umsebenzi weklasi okhokelwa ngutitshala (ucwangcise kwiCAPS)</p> 	<p>Ixesha lokugoduka</p> 

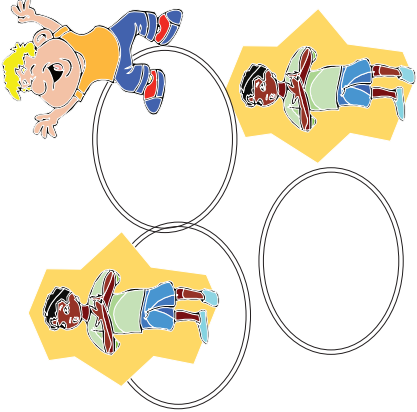
Iveki 1 Uqhelaniso	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engekho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engekho ngaphantsi kwesihlanu umsebenzi weMathematika ngeveki (± 5)		
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>Amanqaku:</p> <ul style="list-style-type: none"> • Ukunikezelwa/ukufundiswa komxholo kuxhomekeke kwixesha elikwinkqubo yemihla ngemihla. • Inkqubo yemihla ngemihla iyaguqu-guquka, umz amathuba okuya ngase angasuswa asiwe kwenye inkqubo kuxhomekeke kw imeko yesikolo. • Bonakalisa imisebenzi yetshati kuphela emva kokuba yazisiwe. • IIKHOLAMU ZAMANQAKU ANGCACISO AZIBHALWA NGOKULANDELELANA, KOKO ZIBHALWA MALUNGA NOMXHOLO. Ngako oko kufuneka wenze isigqibo sokuba ngowuphi umsebenzi omawenziwe. • Kwezinye iiveki imisebenzi ingaphezulu kwesihlanu. Oku kukuqinisekisa ukuba unemisebenzi eyaneleyo oza kukhetha kuyo, loo nto ayithethi ukuba kufuneka wenze yonke imisebenzi efakiweyo. 	<p>1.4</p> <p>Chaza, thelekisa uze ulandelelanise amanani</p> <ul style="list-style-type: none"> • Ukuqalisa izifundo ngamathuba okuya ngase (sebenzisa amanani olandelelwano ukubonisa idawo-bume) <ul style="list-style-type: none"> - Khulisa ukuqonda kokulandelelana kwamathuba okuya ngase, umz amanani olandelelwano umz. (qala uye kwindlu yangasese, emva koko hlamba izandla, vala itephu, ze wosule /womise izandla, njalo njalo.) - Yenza uqhelaniso lwamanani aqhelekileyo umz. uNandi ngowokuqala, uNamhla ngowesibini, njalo njalo 	<p>isepha, itaweji yobuso, izindlu zangasese, amanzi abalekayo</p>	<p>Emva kokuba amathuba angasese azisiwe, lo msebenzi mawenzeke yonke imihla.</p>

<p>Iveki 1 Uqhelaniso</p>	<p>Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engakho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi weMathematika ngeveki (± 5)</p>		<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Ukwazisa itshati yokucoca <ul style="list-style-type: none"> - Misela amaqela amancinci okusebenza. - Khuthaza ukulandelelaniswa nokuhlelwa kwezixhobo <p>Yahlula inani labafundi eklasini yakho babengamaqela asibhozo okucoca. Iqela ngalinye malithathe inxaxheba ekucceni indawo bethintshisana ngeveki</p> <p>Chaza, hlela uze uthlekise izinto ezinokwakheka kuka 3-D ngoko:</p> <ul style="list-style-type: none"> • Bungakanani • Umbala • Izinto eziqengelekayo • Izinto ezitshebelezayo 	<p>Izixhobo ezicetyiswayo/ ezinokusetyenziswa</p> <table border="1"> <tr> <td></td> <td>Hlamba izikhongozelo zepeyinti neebrashi</td> <td></td> </tr> <tr> <td></td> <td>Incwadi yokucoca ikona</td> <td></td> </tr> <tr> <td></td> <td>Ukubuyisela iibhoko endaweni yazo</td> <td></td> </tr> <tr> <td></td> <td>Tshayela umgangatho</td> <td></td> </tr> <tr> <td></td> <td>Ukuqoqosha ikona yendlu</td> <td></td> </tr> <tr> <td></td> <td>Pakisha/buyisela iiphazili endaweni yazo</td> <td></td> </tr> <tr> <td></td> <td>Coca iitafle zobugcisa</td> <td></td> </tr> <tr> <td></td> <td>Coca i itafle</td> <td></td> </tr> </table>		Hlamba izikhongozelo zepeyinti neebrashi			Incwadi yokucoca ikona			Ukubuyisela iibhoko endaweni yazo			Tshayela umgangatho			Ukuqoqosha ikona yendlu			Pakisha/buyisela iiphazili endaweni yazo			Coca iitafle zobugcisa			Coca i itafle		<p>Ixesha eliqikelelweyo</p> <p>Emva kokuba amathuba okucoca azisiwe, lo msebenzi mawenziwe yonke imihla.</p>
	Hlamba izikhongozelo zepeyinti neebrashi																												
	Incwadi yokucoca ikona																												
	Ukubuyisela iibhoko endaweni yazo																												
	Tshayela umgangatho																												
	Ukuqoqosha ikona yendlu																												
	Pakisha/buyisela iiphazili endaweni yazo																												
	Coca iitafle zobugcisa																												
	Coca i itafle																												

Iveki 1 Uqhelaniso	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engokho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engokho ngaphantsi kwesihlanu umsebenzi weMathematika ngeveki (± 5)	Ixesha eliqikelelweyo
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa
1.1 Bala izinto	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> Ukwazisa Itshati Yomncedisi nendlela ekuza kumanjiswa ngayo ukutya/ ekuza kutyiwa ngayo. Qikelela uze ubale izinto ukukhulisa ingqiqo yamanani <ul style="list-style-type: none"> Itshati yomncedisi isetyenziselwa ukuchonga umncedisi wosuku oza kulungisa itafle ngexesha lokutya. Izangqa ezihlanu kwitshati yabancedisi zimele amaqela amahlanu abafundi abahluliweyo, umz iqela elibomvu, iqela elibhloko, iqela elityheli, iqela eliluhlaza kunye neqela eli-orenji. Angasebenzisa iindidi zeziqhamo/ izilwanyana/ izithuthi njalo njalo. Isimboli yomfundi ngamnye mayibekwe ngaphakathi kwesangqa seqela angena kulo. Ukujika iintolo ezidityaniswe phakathi kwisangqa sichaza inkokeli yeqela. Inkokeli yeqela iyajikeleza yonke imihla ukuqinisekisa ukuba umfundi ngamnye ufumana ithuba lokuba yinkokeli. Inkokeli yeqela ibala inani labafundi nepleyiti malunga nenani labafundi abakhoyo kwiqela laloo mini. (ukuqinisekisa ukuba umfundi ngamnye ufumana ithuba lokuba yinkokeli). Inkokeli yeqela ibala inani labafundi nepleyiti malunga nenani labafundi abakhoyo kwiqela laloo mini. (ukuqinisekisa ukuba umfundi ngamnye ufumana ithuba lokuba yinkokeli). 	<p>Itshati yomncedisi</p>  <p>Imva kokuba Itshati Yomncedisi yazisiwe, izidlo mazityiwe yonke imihla.</p>
3.3 Izinto ezinokwakheka kuka -2-D	<p>Ukunakana , ukuchonga nokuxela imilo/imifanekiso enokwakheka kuka- 2-D eklasini.</p> <ul style="list-style-type: none"> Isimboli zabafundi Nika umfundi ngamnye ithuba lokuzikhethelela isimboli yakhe yekhadi. Yenza amalungiselelo ebhloko yobuchule ngesimboli yomfundi ngamnye (umfanekiso okanye ifoto). Ncamathisela isimboli kwilokhari yomfundi ngamnye. Yeka umfundi achonge ilokhari yakhe edibana nesimboli yakhe. Ncamathisela isimboli negama ezimpahleni zomfundi. Abafundi bachonga isimboli zabo nezabahlobo babo ngokudlala imidlalo ukukhuthaza abafundi ekuchongeni amakhadi esimboli ahlukileyo umz abafundi benza isangqa notitshala bebonisa zonke isimboli ze bafuze abafundi ukuba bachonge ezabo. Iifoto ezincinci zabafundi zingasetyenziswa njengamakhadi esimboli ukuba zikhona. Amagama eklasi Bethelela into yokuba abafundi Bangamalungu eqela elinye elikhulu ngokuba iklasi uyinike igama elinye, umz ngokusebenzisa imifanekiso yeklasi. <p>Abafundi mabalazi igama likatitshala wabo</p>	<p>Njengokuba abafundi befika ngosuku lokuqala.</p> <p>Amakhadi aneesimboli ezizodwa zabafundi.</p> <p>Yenza amakhadi enziwe ngemifanekiso yeesimboli.</p> <p>Iilokha, iibhokisi okanye iihuku ezixhonywe eludongeni zineesimboli eziphawuliweyo.</p> <p>Ileyibheli yeBanga labaQalayo (R)</p> <p>Umfanekiso wegama leklasi oxhonywa elucangweni.</p> <p>Mawube neleyibheli yegama nefani yetitshala.</p>

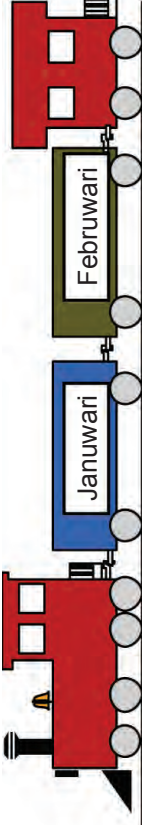
<p>Iveki 1 Uqhelwaniso</p>	<p>Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engekho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engekho ngaphantsi kweshlanu umsebenzi weMathematika ngeveki (± 5)</p>	<p>Izixhobo ezicetyiswayo/ ezinokusetyenziswa</p>	<p>Ixesha eliqikelelweyo</p>
<p>Isihloko</p>	<p>Amanqaku angcaciso</p>		
	<p>Amanqaku:</p> <ul style="list-style-type: none"> • Bonisa kuphela isimboli yomfundi/ifoto kwiinyanga ezintathu zokuqala. • Bonisa isimboli yomfundi/ifoto kunye negama lomfundi kwiinyanga ezintathu ezizayo. • Bonisa kuphela igama lomfundi kwileyibheji kwiinyanga ezintandathu zokugqibela enyakeni • Gcina ucango unyaka wonke. • Leyibhelisha igama likatitshala • Leyibhelisha ubonisa iklasi yeBanga R 		
<p>Iveki 2 Uqhelwaniso</p>	<p>Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engekho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engekho ngaphantsi kweshlanu, umsebenzi wemathematika ngeveki (± 5)</p>	<p>Izixhobo ezicetyiswayo/ ezinokusetyenziswa</p>	<p>Ixesha eliqikelelweyo</p>
<p>Isihloko</p>	<p>Amanqaku angcaciso</p>		
<p>1.1 Bala izinto</p>	<p>Qikelela ze ubale ngokuthembekileyo izinto zemihla ngemihla Ukubala kwemihla ngemihla</p> <ul style="list-style-type: none"> • Ukubala ngentloko/ ngesingqi ukusuka kwisinye ukuya kwishlanu. • Cula amaculo ngamanani nezicengcelezo <p>Noxa abafundi bengenalwazi ngamanani xa beqala iBanga R, mabakhuthazwe ukuba benze izicengcelezo zamanani amaculo ze babale ngentloko yonke imihla.</p>	<p>Inani lamaculo nezicengcelezo</p>	<p>Imihla ngemihla</p>

Iveki 2 Uqhelwaniso	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engekho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engekho ngaphantsi kwesihlanu, umsebenzi wemathematika ngeveki (± 5)	Ixesha eliqikelelweyo
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa
<p>1.4 Chaza, hlela, ze ulandelelanise amanani</p>	<p>Thelekisa ukuba phakathi kwezinto ezimbini ozinikiweyo yeyiphi enkulu nencinci Bafundise ngokhulu nencinci Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Abafundi bafumana amava ngokhulu nencinci, baqotha imizimba bazeze bancinci ze bazolule kangangoko banako bezenza bakhulu. - Xelela abafundi badibanise izandla zabo nezabahlobo bejonga ukuba zezikabani ezikhulu okanye ezincinci. - Thelekisa izandla zikatitshala nezomfundi - Thelekisa ingalo katitshala neyomfundi. <p>Chaza ,uhlele uze uthelekise izinto ezinokwakheka kuka 3-D no 2-D ngokobungakanani Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Yenza iibhola ezinkulu nezincinci. - Fumana izinto ezinkulu nezincinci - Phawula izinto ezinkulu ngesitikha esibomvu ze ezincinci uziphawule ngesityheli. Thetha malunga nobungakanani obahlukeneyo bezinto . - Hlela izinto ezinkulu nezincinci ngokobungakanani. <p>Ukusebenzisa izinto okanye iimilo ezokwakheka kuka 2-D okanye imifanekiso Sebenzisa amagama 'ubukhulu' no'buncinci' xa usenza imisebenzi yobugcisa:</p> <ul style="list-style-type: none"> - Ngokukhangela imifanekiso yezinto ezinkulu nezincinci uze uyisike. - Abafundi mababhale ngokucinezela/mabathreyise izandla zabo ze basike umthreyiso. Mababeke umthreyiso omnye phezu komnye. Jonga ukuba sisandla sikabani esikhulu nesincinci. - Yahlula iphepha kabini. - Ncamathiseela zonke izinto ezincinci kwelinye icala lephepha ze uncamathisele izinto ezinkulu kwelinye. 	<p>Abafundi</p> <p>Udongwe lokudlala Izinto ezinkulu nezincinci</p> <p>Iimagazini, amaphepha-ndaba, izibhengezo, izikere</p> <p>Iphepha i-A3, iikhrayoni</p>

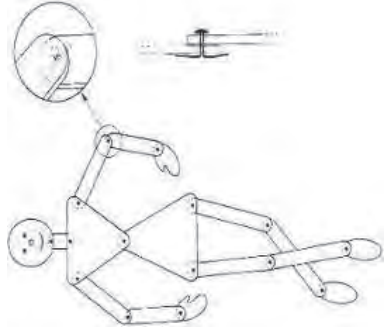
Iveki 2 Uqhelwaniso	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engakho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu, umsebenzi wemathematika ngeveki (± 5)	Ixesha eliqikelelweyo
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa
<p>3.1 Indawo-bume, ukufumana indawo apho hoyo, nembonakalo</p>	<p>Chaza idawo bume yezinto ezi-2 okanye ezi-3 ezinokwakheka kuka 3-D ngokunxulumene nomfundi: ngaphandle nangaphakathi Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Nika umfundi ngamnye uHula-hupu (<i>Hoops</i>). (Utitshala ubonisa abafundi ngokuthi enze nabo ebiza abagama “ngaphakathi nangaphandle”). Mabatsibatsibe ngaphakathi nangaphandle uhula-hupu belinganisa imiyalelo katitshala. - Yima ngomlenze omnye kuhula-hupu ze omnye umlenze ube ngaphandle. - Thabatha ibhokisi ze umfundi atsbatsibe ngaphakathi nangaphandle emva koko abafundi baxoxe ngokuba umfundi ungaphandle na okanye ngaphakathi. - Tsibela ngaphandle nangaphakathi kwamavili njengomsebenzi wokuthamba. - Tsibela ngaphakathi nangaphandle kuhula-hupu uvale amehlo. <p>Ukusebenzisa izinto eziphathekayo ezinekwakheka kuka 3-D Yeka abafundi:</p> <ul style="list-style-type: none"> - Batsale unodoli (umntwana) ngaphakathi bafake unodoli phakathi ze bamkhuphele ngaphandle kwekhoti (ibhed) - Julia ibhola /ibhimbhegi (<i>bhimbhegi</i>) kuhula-hupu/evilini - Sebenzisa udongwe ze ulubumbe lube ziihola izisicaba (indlu yentaka); bumba ngaphezu kwebhola enye (amaqanda) ze uwabeke ngaphakathi/ ngaphandle kwendlwana yentaka ngokomyalelo katitshala. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso Yalela abafundi ukuba:</p> <ul style="list-style-type: none"> - Bajonge umfanekiso ze bakhangele ukuba Bangazifumana na izinto ezibonisa izinto ezingaphakathi nezingaphandle. - Mabazobe zona ngaphandle / ngaphakathi kukuhula-hupu/ ibhafu, njalo njalo. 	<p>UHula-hupu (<i>Hoops</i>)</p> 
		<p>Usuku olu-1</p>

Iveki 2 Uqhelwaniso	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engekho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engekho ngaphantsi kwesihlanu, umsebenzi wemathematika ngeveki (± 5)		
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>3.2 Izinto ezinokwakheka kuka 3-D</p>	<p>Ukwakha izinto ezinokwakheka kuka- 3-D usebenzisa izinto eziphathekayo</p> <ul style="list-style-type: none"> • Phonononga amathuba okwakha iibhloko ngexesha kusenziwa umdlalo okhululekileyo wangaphakathi <ul style="list-style-type: none"> - Inxaxheba ethathwa ngutitshala ekujongeni lo mdlalo - Phonononga amathuba okwakha iibhloko ngokuncedisa abafundi ukuba bakhe ngokunqamlezileyo (ezisicaba), ngokwehlayo (sicaba), izakhiwo ezide nezifutshane. - Hlela ze ulandelelanise iibhloko ezahlukeneyo ngokudibanisa ezineemilo ezifanayo. - Hlela ze ulandelelanise iimilo ezahlukeneyo ngokuzidibanisa ngokobungakanani. - Hlela iibhloko ngokobukhulu nobuncinci. - Umfundi ngamnye makafumane iibhloko enamacala anokwakheka kuka 3-D, ebuxande ze azilungise ngeendlela ezininzi, ukuba kunokwenzeka, umz zidwelise ze uziqokelele ngeendlela ngeendlela. Abafundi Bangathelekisa ze bakope /bakhuphele ezabanye. Basenokwabelana ngeebhloko bengamaqela ukubenza baqonde ngeendlela ezimi ngayo. - Nyusela ukupakishwa kweebhloko zokwakha ngokoyilo olunikiweyo olungasemva kweshelfu ngokuzidibanisa ngokolu yilo lunye. 	<p>iibhloko mazipakishwe kwishelfu, ngokoyilo olunikiweyo olungasemva kweshelfu .</p> <p>Izixhobo ezongezelelweyo ezifana neminwe emifutshane, (imifanekiso/ iimbuso ezincanyathiselwe ezimpahleni ngeephegi), iimoto zokudlala, izilwanyana zasezifama, iimpawu zendlela, njalo njalo mazenziwe zifumaneka.</p>	<p>Imini e-1 uze ukuphinde oku ngexesha lokudlala ngokukhululekileyo yonke imihla</p>


Iveki 2 Uqhelwaniso	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engekho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engekho ngaphantsi kwesihlanu, umsebenzi wemathematika ngeveki (± 5)	Ixesha eliqikelelweyo
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa
<p>3.2 Izinto ezinokwakheka kuka 3-D</p>	<p>Chaza, hlela ze uthlekise izinto ezinokwakheka kuka 3-D no 2-D ngokwemibala engundoqo, oluhlaza okwesibhakabhaka, obomvu, otyheli/ooqanda</p> <p>Bonisa umbala ube mnye ngexesha. Sukudibanisa umbala omnye nesimo esinye Yahlula abafundi babe ngamaqela amahlanu.</p> <p>Nika iqela ngalinye izinto ezinemibala emininzi ezinokwakheka kuka 3-D no -2-D ngokweemilo.</p> <ul style="list-style-type: none"> - Bafundise umbala ngamnye ngokubabonisa ikhadi elinalo mbala ufuna abantwana bawazi, umz obhlowu. Wuphinda-phinde nomnye umbala. - Abafundi mabahtlele izinto ngokokwakheka kuka 3-D no -2-D ngokwamakhadi awohlukeneyo abonisiweyo. <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Ncamathisela izangqa ezinemibala eyahlukkeneyo (bomvu, qanda, bhlowu), nqunqa ikhalibhodi esifubeni somfundi ngamnye. - Abafundi mabazicwangcise ngokwemibala eyahlukileyo. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Utitshala ubiza abafundi abahlanu beze ngaphambili ze anike umfundi ngamnye into eyahlukileyo enokwakheka kuka 3-D ukuba ayibambe ngesandla sakhe. - Abafundi abashiyekileyo mabahtlele phantsi ngokwamaqela benengqokelela yezinto ezinokwakheka kuka 3-D kumbindi wetafile. - Umfundi wokuqala ngaphambili makaphakamise into yakhe enokwakheka kuka 3-D umz. ibhloko yeyunifiksi ebhlowu okanye isangqa esiqanda, imilo zelogu okanye iiphazili, njalo njalo - Abafundi, ngokwetafile, bahlela izinto ezahlukkeneyo ezinokwakheka kuka 3-D njengoko abafundi beziphethe. <p>Ukusebenzisa imilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Utitshala ulungisa ipeyinti yeminwe kwangethuba - Abafundi bazoba imilo ngepeyinti besebenzisa iminwe. - Baththeyisa imilo ezinokwakheka kuka -2-D ze bayifake umbala. 	<p>Izinto/imifanekiso eyahlukkeneyo enokwakheka kuka 3-D no -2-D/ imifanekiso eklasini umz imintla yeebhofite, ibhloko zeLeqo, illogu ezimibala-bala, njalo njalo. amakhadi ayimibala: obhlowu, obomvu, oqanda.</p> <p>Izinto ezahlukkeneyo ezikwimo ezinokwakheka kuka 2-D nezi 3-D</p> <p>Izangqa ezibomvu, eziqanda nezibhlowu ngutitshala ezisikwe kwikhalibhodi.</p> <p>Izinto ezahlukkeneyo ezikwiimo ezinokwakheka kuka 3-D eziqokelelwe phambi kwexesha ze zabekwa kumbindi weqela ngalinye.</p> <p>Iresiphi yokupeyinta ngeminwe: ikomoty yomgubo ibe nye ikomityi yeswekile ibe nye amathontsi amathathu esijiki-bala sokutya/iphawuda yepeyinti iikomityi ezintlanu zamanzi abilileyo (zamisa amanzi ngokucuthayo)</p>
<p>3.3 Izinto ezinokwakheka kuka 2-D</p>		

Iveki 2 Uqhelwaniso	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engekho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engekho ngaphantsi kwesihlanu, umsebenzi wemathematika ngeveki (± 5)		Ixesha eliqikelelweyo
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	
4.1 Ixesha	<p>Ukulandelelanisa iziganeko ezenzeka rhoqo kubomi babo bemihla ngemihla</p> <ul style="list-style-type: none"> • Iinyanga zonyaka • Ixesha <p>Bafundise itshati yemihla yokuzalwa</p> <ul style="list-style-type: none"> - Yila / yenza itshati yemihla yokuzalwa emibalabala umz. uloliwe onamakhareji alishumi elinambini (inyanga nganye) – iinyanga mazilandelelane ukusuka ekunene ukuya ekhohlo emakharejini. Beka igama nesimboli /ifoto yomfundi kwinyanga azalwa ngayo. - Benze baqonde ngokufundwa kwexesha umz. iinyanga zonyaka ngokuthi bacengceleze amagama eenyanga bezikhomba ngamagaba eenyanga. - Khulisa ukukwazi ukufunda izalathiso. Umz. Bonisa ileyibhele yenyanga nganye yonyaka kumqolo omnye ukusuka ngasekhohlo ukuya ngasekunene. - Yalela abafundi bachonge iisimboli/iiifoto zabo ze babethelele entloko (bankqaye) ukuba usuku lwakhe lokuzalwa lukweyiphi inyanga. - Bakhuthaze ukuba bazi iminyaka yabo. - Phinda-phinda lo msebenzi ngokuzingisileyo(amaxesha ngamaxesha) <p>Itshati yomhla yosuku wokuzalwa eneenyanga ezilishumi elinambini zonyaka zibonisiwe ukusuka ekhohlo ukuya ekunene</p> <p>Isithsaba okanye umfanekiso wekeyiki yosuku lokuzalwa lubonakalisa ukuba usuku lokuzalwa ludlule.</p> <p>Ingoma: Qamba eyakho ingoma</p> <p>“EYOMQUNGU (JANYUWARI), EYOMDUMBA (FEBRUWARI), EYOKWINDLA (MATSHI), UTSHAZIMPUZI (EPRELI), UCANZIBE (MEYI), ISILIMELA (JUNI), EYEKHALA (JUNI), EYETHUPHA (AGASTI), EYOMSINTSI (SEPTEMBER), EYEDWARHA (OKTOBER), EYENKANGA (NOVEMBER), EYOMINGA (DISEMBER).</p>	 <p>Unyaka wonke xa kukho usuku lokuzalwa.</p>	
Qaphela:	<ul style="list-style-type: none"> • Usuku lokuzalwa komfundi lubaluleke kakhulu kwaye malubekwe bucala njengomjikelo weemini zokuzalwa apho abafundi baza kucula u“Min’ eMnandi Kuwe!” beqhwaba izandla ngokweminyaka yokuzalwa kwamakhwenkwe/amantombazana. • Umfundi ngamnye eklasini angazoba umfanekiso ze utitshala aqokelele/adibanise yonke imifanekiso kwincwadi yosuku lokuzalwa komntwana, lowo ubhiyozela usuku lwakhe lokuzalwa. • Utitshala angenza imbasa yosuku lwemini yokuzalwa kwenkwenkwe okanye intombazana ze abafundi bayihombise ngezixhobo zekholaji. • Lo msebenzi mawuphindaphindwe ngosuku lokuzalwa komfundi ngamnye apha eklasini. 		

Ixesha lokufundisa elicetyiswayo: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engakho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi weMathematika ngeveki (± 5)			
Iveki 3 Uqhelaniso	Amanqaku angcaciso	Isihloko	Amanqaku angcaciso
1.1 Bala izinto	<p>Qikelela ze ubale izinto zemihla ngemihla ezithembekileyo</p> <ul style="list-style-type: none"> • Ukubala ngomlomo kwemihla ngemihla <ul style="list-style-type: none"> - Ukubala ngentloko/ ngesingqi ukusuka kwisinye ukuya kwisihlanu. - Cula amaculo ngamanani nezicengcelezo <p>Noxa abafundi bengenalwazi ngamanani xa beqala iBanga R, mabakhuthazwe ekuculeni izicengcelezo zamanani amaculo ze babale ngentloko yonke imihla.</p> <p>Chonga uze ubale amalungu omzimba awohlukileyo (Umfanekiso womzimba)</p> <p>Chonga/khetha ze ubale iindawo ezahlukeneyo zomzimba</p> <p>Ukubala kwemihla ngemihla komlomo ukusuka kwisinye ukuya kwisihlanu.</p> <p>Ukufunda usebenzisa intshukumo yomzimba (Ziqukwe nezakhono zobomi – ubume ubububo bomntu)</p> <ul style="list-style-type: none"> - Benze baqonde ngokufundwa kwamalungu omzimba ngokuthi babale amalungu omzimba. - Ndibonise impumlo ze uyibale. Zingaphi iimpumlo zakho? - Ndibonise iindlebe zakho uzibale. Zingaphi? Ingaba ikho eyongeziweyo? Masibale ngokwengeza. - Ndibonise izandla zakho. Zingaphi? Masizibale. Ubona ntoni ezandleni zakho? Iminwe? Ungayibala? Masibale izandla neminwe: 1,2,3,4,5. - Mangaphi amehlo? Bala iindlebe zakho namehlo akho. Bamba amehlo neendlebe zakho ngeli xesha ubalayo, uqale ngeendlebe zakho. - Hlala ujongane nomhlobo wakho ze ubale amalungu akhe omzimba kodwa qala uwabambe ze uwabale. Utitshala makakhokele le nkqubo, umz bamba indlebe yomhlobo wakho ibe nye; bamba enye indlebe yakhe; yibale/zibale; inye, zimhini. Ingaba ziyafana nezakho. Qhuba nalo msebenzi. - Chonga / khetha amalungu omzimba apho lifumaneka lilinye emntwini umz impumlo inye, umlomo mnye, isilevu sinye, njalo njalo. <p>Ukusebenzisa iimilo ezinokwakheka kuka- 2-D okanye imifanekiso</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Bajonge isipili ze bazithreyise/ bazizobe. - Mabenze uyilo lwemizimba yabo kwiphephandaba ze bawuhombise kakuhle. Zoba umgca embindini. - Nqunqa / sika imifanekiso yamalungu omzimba ahlukeneyo kwimagazini okanye isibhengezo ze ugqibezele ubuso. - Nqunqa/ sika ubuso kwiimagazini ze uzobe amanye amalungu omzimba ashiyekileyo. 	<p>Inani lamaculo nezicengcelezo</p> <p>Amaculo aneentshukumo nezicengcelezo</p> <p>Iphaziii, imidlalo ebonakalisa abantu nemizobo yomzimba</p> <p>Amakhadi emidlalo</p> <p>Abafundi</p> <p>Isipili esipheleleyo ngobude</p> <p>Iphepha i-A4 , ikhrayoni</p> <p>Imagazini, Izibhengezo, iiflaya, izikere.</p>	<p>Imihla ngemihla</p> <p>Usuku olu-1</p>

Ixesha lokufundisa elicetyiswayo: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engakho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi weMathematika ngeveki (± 5)			
Iveki 3 Uqhelaniso	Amanqaku angcaciso	Isihloko	Amanqaku angcaciso
Isihloko		Abafundi 	Usuka olunye
3.3 Ulingano - macala	Ukuqonda/ukunakana umgca wolingano-macala wakho Benze baqonde ukuba umzimba womntu unamacala amabini Ukusebenza ngentshukumo yomzimba Bethelela kwicala elinye / kwelinye icala Utitshala uthetha nabantwana malunga nomphambili womzimba nomva kwakunye nomntla nomzantsi womzimba. Yenza abafundi: - Bazijonge esipilini apho banokuthi babone yonke imizimba yabo. - Bachonge /bakhethe okokuba ngawaphi amalungu akwelinye icala aphinde abe kwelinye icala lomzimba. - Babambe amalungu omzimba njengoko kufuneka umz 'bamba iinzwane zakho, bamba iinyawo zakho, bamba imilenze yakho" Abafundi bangenza imithambo bevale amehlo. - Babambe ilungu elinye lomzimba nelinye ilungu lomzimba umz. chukumisa amaqatha akho ngempumlo njalo njalo. (Ikwangumsebenzi womgca ogqitha embindini)	Isipili esipheleleyo ngobude utitshala angabeka esebenzisa imilinganiselo yeminwe/umzobo osikwe ekhadibhodini	Usuku olu-1
3.2 Izinto ezinokwakhela kuka 3-D	Ukuqonda/ ukunakana, ukuchonga nokuxela izinto ezinokwakhela kuka- 3-D eklasini. iibhola Benze baqonde, bachonge baze bathiye iibhola amagama - Abafundi badlala ngeebhola ze babonakalise, baxele zonke izinto abanokuzenza ngebhola. Utitshala ukhokela ingxoxo ngokubuzisa imibuzo. - Chonga zonke izinto ezinokuqengqeleka umz. bonisa iibhokisi ze ubuze imibuzo: ucinga ukuba ibhloko ingaqengqeleka? Masibone". - Qengqa zonke izinto ze ubukele ukuba ziqengqeleka njani umz iinkonkxa ziqengqelekela kwicala elinye kuphela. - Sebenzisa udongwe ukubamba iibhola ezinokuqengqeleka xa kusenziwa imidlalo (umdlalo wokuzikhethela ngaphakathi). - Ngexesha lentshukumo abafundi Bangazama ukuyeka imizimba yabo iqengqeleke, iqengqwa ngexesha becambalele ngemizimba yabo njengebhola neengqokumba.	izinto ezingqukuva umz ii-orenji, ii -apile, iibhola, iinkonkxa ezingqukuva ezingenanto. (Yenza iibhola usebenzisa izinto esele zisebenzile umz. iibhola zamaphandaba abotshwe ngekawusi endala) izinto ezisisikweri umz iibhloko ukudlala iresiphi yodongwe: ikomityi yomgubo ihafu yekomityi yetyuwa, ikomityi enye yamanzi, iitispuni ezimbini ze-oyile yokupheka amathontsi ambalwa okujika umbala ukutywa	Xuba zonke izithako

Ixesha lokufundisa elicetyiswayo: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala imizuzu engakho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi weMathematika ngeveki (± 5)			
Iveki 3 Uqhelaniso	Amanqaku angcaciso	Isihloko	Amanqaku angcaciso
<p>Isihloko</p> <p>3.3 Izinto ezinokwakheka kuka 2-D</p>	<p>Amanqaku angcaciso</p> <p>Ukuqonda/ ukunakana, ukuchonga nokuxela iimilo ezinokwakheka kuka 2-D eklasini okanye imifanekiso</p> <ul style="list-style-type: none"> - izangqa • Ukufundisa izangqa <p>Xa ufundisa izangqa okokuqala izinto ezisetyenziswayo mazifane ncakasana ngento yonke umz. ubungakanani obunye, umbala omnye, imvakalo enye).</p> <p>Imisebenzi eyenziwa ngentshukumo yomzimba</p> <p>Ufithshala uzoba isangqa phantsi /emgangathweni. Yeka abantwana bahamba-hambe bejikeleza isangqa ngexesha bethetha, “ ndihamba ecaleni kwesangqa...jikelele jikelele”</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Babambane ngezandla benze isangqa. - Benze isangqa ngemizimba yabo. - Bajikeleze isangqa ngaxeshanye becula ingoma. - Bahlale phantsi esanggeni bephoselana ngento ukusuka komnye ukuya komnye ngexesha becula “mbongolo, mbongolo, ibiqith’ aph’ imbongolo”. Umfundi osenento ngexesha kuyekwa ukucula, makahambe aye kuhlala embindini wesangqa. 	<p>Isihloko</p> <p>Makusetyenziswe ingoma ehambelana nesangqa.</p> <p>Umdlalo, “inkukhw’ ibek’ iqanda. Intoni? Iqanda”</p>	<p>Amanqaku angcaciso</p> <p>Usuku olu-1</p>
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Ufithshala ubonisa abantwana isangqa sokudlala ze abacacisele ukuba xa sibizwa kuthiwa sisangqa. Isangqa asinazikona.</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Baphathe isangqa sokudlala esinokwakheka kuka 3-D ngeli xa bejikeleza isangqa. - Fumane izinto eklasini ezifana ncakasana nesangqa. <p>Ukuhlela ze bathelekise izinto ezinokwakheka kuka 3-D ngokobungakanani nombala</p> <p>Ufithshala unika abafundi iintlobo ngeentlobo zezinto ezimilo zinokwakheka kuka 3-D no -2-D ngokobungakanani obahlukeneyo (khulu kunye noncinci) kunye nemibala bomvu, qanda, bhlowu) ezifana nebholo yentenetya, amaqam, iibhaloni njalo njalo.</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Hlela izinto ngokobukhulu nobuncinci. - Hlanganisa izinto ngokwemibala eyahlukeneyo. 	<p>Hula-hupu</p> <p>Izinto eziziindidi ngeendidi ezinokwakheka kuka 3-D ezifana nebholo yentenetya, amaqam, iibhaloni njalo njalo.</p> <p>imilo ezinokwakheka kuka 2-D ezifana nokusika isangqa seplastikhi.</p>	<p>Usuku olu -1</p>

Iveki 3 Uqhelaniso	Ixesha lokufundisa elicetyiswayo: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engakho ngaphantsi kwemashumi amathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi weMathematika ngeveki (± 5)	Amanqaku angcaciso	Isihloko	Amanqaku angcaciso
<p>Isihloko</p> <p>4.1</p> <p>Ixesha</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Ukwazisa itshati yemozulu nekhelenda a) Ixesha b) Iintsuku zeveki c) Ukulandelelanisa iziganeko d) Ukubala - Imozulu imele iveki enye (iintsuku ezintlanu) usebenzisa iisimboli zamakhadi. umz iintsuku ezintathu ngeveki zilandelelana ukusuka ekhohlo ukuya ekunene (jonga umzekelo apha ngezantsi) - Imozulu mayenziwe yonke imihla - Utitshala ukhokela abafundi ukuqonda amagama eentsuku, imihla, iinyanga ngokoonotsheluzi abanemifanekiso (ekugqibeleni abafundi Bangachonga ze babonise oonotsheluzi ngokwabo). - Inkokeleli yosuku iqwalasela imozulu phandle ze yabelane ngaloo nto iyifumeneyo namalungu eqela xa ewonke umz kuyana, kukho amafu, yimini eshushu. - Utitshala ubonisa abafundi izinto azifumeneyo ngokusebenzisa oonotsheluzi njengemifanekiso (ekugqibeleni abafundi Bangabonisa ababo oonotsheluzi). - Ngokwenza oku abafundi Bangafunda ngeentsuku zeveki neempelaveki. - Bafunda ngo 'namhlanje, izolo, ngomso' njalo njalo, ngokungalindelekanga. - Abafundi banikwa amathuba okubala ukuya kuma kwisihlanu. Babala iintsuku ezishushu, ezibandayo, ezinomoya, njalo njalo. - Babonisa iisimboli zabafundi ukuba ngaba kukho iintsuku zokuzalwa kuloo veke. - Babonisa nawuphi na umsebenzi owenzeka evekini umz. ukuya kumzi wezilwanyana (ibonakaliswe ngomifanekiso wezilwanyana) 	<p>Isihloko</p> <p>Itshati yemozulu kufuneka ibonise iiveki, umz iintsuku zeveki ngokulandelelana kwazo ukusuka ekhohlo ukuya ekunene kwiinyanga zokuqala ezintandathu ze yenziwe yonke imihla.</p> <p>Oonotsheluzi:</p> <ul style="list-style-type: none"> - BeeNtsuku zeveki - Bamanani ukusuka kwisinye ukuya kumashumi amathathu ananye - Amagama eenyanga ezilishumi elinambini - Unyaka umz. 2012 - Amakhadi anemozulu umz 	<p>Amanqaku angcaciso</p> <p>Emva kokuba itshati ifundisiwe yemozulu lo msebenzi mawenziwe yonke imihla.</p>	
		<p>Isihloko</p> <p>kukho umoya</p> <p>kushushu</p> <p>kuyana</p> <p>kukho amafu</p>		<p>Fundisa abantwana ingoma yeentsuku zeveki abaza kuyazi ngentloko (abaza kuyinkqaya)</p>

Ixesha lokufundisa elicetyiswayo:
Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala imizuzu engakho ngaphantsi kwamashumi amathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi weMathematika ngeveki (± 5)






	Amanqaku angcaciso	Isihloko	Amanqaku angcaciso
--	--------------------	----------	--------------------

Umzekelo wetshati yemozulu

Itsathi yemozulu

Juni

2012

Cawa	Mvulo	Lwesibini	Lwesithathu	Iwesine	Lwesihlanu	Mgqibelo
12	13	14	15	16	17	18
						

4.1 Ixesha

Ukulandelelanisa iziganeko ezenzeka rhoqo kwimihla ngemihla ebomoni babo

- **Iintsuku zeveki**
Utitshala ufundisa abafundi amaculo nezicengelezo ezimalunga neentsuku zeveki. Phinda-phinda ukuxoxa ngetshati yemozulu yonke imihla.

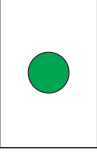
Iculo:
"Zisixhenxe iintsuku zeveki, zisixhenxe iintsuku zeveki".
"Cawe, Mvulo, Lwesibini, Lwesithathu, Lwesine, Lwesihlanu, Mgqibelo." (phinda-phinda kabini)


- **Ukufundisa itsathi ebonisa amaxesha onyaka omane uwabonisa ngotolo:**
 - Sikweliphi ixesha lonyaka ngoku?
 - Liliphi ixesha lonyaka esele lidlulile?
 - Liliphi ixesha lonyaka eizayo/elilandelayo?
 - Bonisa umfanekiso wexesha lonyaka esikulo neenyanga zalo, umz ngoJanyuwari ukuya kuMatshi ungabonisa umfanekiso waseHlotyeni.

Amaxesha onyaka (Ixesha)

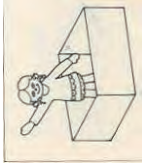
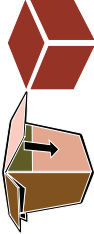
Qaphela:
Yonke imiba emitsha mayaziswe ngokwamaqondo alandelayo

- Iqondo lemisebenzi eyenziwa ngentshukumo yomzimba (amava ngemiba yomzimba novakalelo)
- Iqondo lezinto eziphathekayo (ukusetyenziswa kwezinto ezinokwakheka kuka 3-D)
- Iqondo lezinto ezisemifanekisweni (ukubonakaliswa kwezinto ezinokwakheka kuka 3-D ephepheni umz. ukuzoba, ukudibanisa imifanekiso, amakhadi emidlalo, amaphepha okusebenzela njalo njalo) zonke iimilo ezibizwa ngokuba zimacala mabini.

Iveki 4 Ukuqala ukufundisa amanani	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokhelwa ngutitshala imizuzu engekho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebhatika ngeveki (± 5)		
Isihloko	Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
1.1 Ukubala izinto	<p>Chonga ze uchaze amanani apheleleyo</p> <p>Ukufundisa intsingiselo yenani u-1</p> <p>Ukubala komlomo okuqala kwisinye ukuya kwisihlanu</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Bachonge amalungu omzimba umz impumlo enye. - Banqale intloko kanye, ukungqisha kanye, ukutsiba kanye. - Babambe umnwe omnye, isandla esinye, unyawo olunye njalo njalo - Benze inani isinye ngemizimba yabo - Babhale inani isinye emoyeni/phantsi. - Baqhabe izandla kanye 	Inani lamaculo nezicengcelezo	Usuku olu- 1
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka- 3-D</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Bachonge nayiphina into ezimeleyo eklasini umz. ibhloko eyakhiweyo ibenye. - Benze inani, u-nye ngodongwe. 	Izinto eklasini nokusingqongileyo	
	<p>Ukusebenzisa iimilo ezinokwakheka kuka- 2-D okanye imifanekiso</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Bachonge imifanekiso ngento enye kumakhadi awahlukeneyo. - Badibanise/babophe amakhadi anemifanekiso ngento enye nemakhadi anechaphaza. - Badibanise rhoqo amakhadi anemifanekiso namakhadi anedothi nenani elinye lesixhobo sokubala umz. dibanisa inani elinye lesixhobo sokubala kwedothi nganye. - Emva kokuba ufundise inani u-inye bonisa, ncamathelisa unotsheluzela eludongeni ukuze abafundi bambone yonke imihla. 	<div style="border: 1px solid black; padding: 5px; display: inline-block;">Umfanekiso wento enye</div> <div style="display: inline-block; vertical-align: middle; margin-left: 10px;">  </div> <p>Isixhobo sokubala sibe sinye kumfundi ngamnye Iindidi ngeendidi zemifanekiso ekoonotsheluzela. Oonotsheluzela abanamachaphaza</p>	

Iveki 4 Ukuqala ukufundisa amanani	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokhelwa ngutitshala imizuzu engekho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebhatika ngeveki (± 5)		Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
Isihloko					Usuku olu- 1
2.1 Iipateni zejiyometri	<p>Chonga iipateni zokusingqongileyo neempahla zabafundi Yenza abafundi:</p> <ul style="list-style-type: none"> - Bathethe ngeepateni ebebeziqwalasele kokusingqongileyo nasezimpahleni zabo: - Ziziphi iipateni ezinemigca, iibhloko? - Ingaba iipateni ziyafana zonke, yintoni umahluko, zifana ngantoni? - Yenziwe ngantoni iipateni? - Ipateni iphindaphindiwe – imigca/ ibhloko/imilo <p>Ukusebenza ngentshukumo yomzimba Utitshala ubopha iribhoni ebomvu nebhlowu kwiingalo ezine zabafundi. Wakha ipateni ngokubeka umfundi oneribhoni ebomvu ngaphambili eklasini kulandele oneribhoni ebhlowu ze kugqibele oneribhoni ebomvu. Yeka abantwana bagqibezele le pateni.</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka- 3-D</p> <ul style="list-style-type: none"> - Utitshala wenza ipateni ngeziciko ezithathu ezibhlowu nezintathu ezibomvu. - Yenza abafundi bakhuphele ipateni katitshala. 		Iiribhoni ezibomvu nezibhlowu	Iziciko zeebhottle ezibomvu nezibhlowu kumfundi ngamnye	

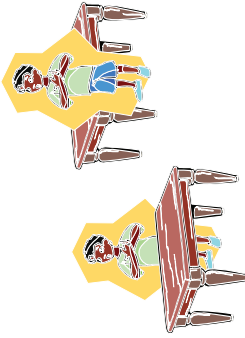
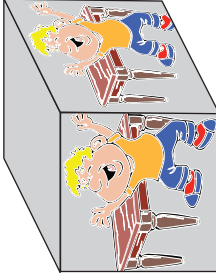
Iveki 4 Ukuqala ukufundisa amanani	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokhelwa ngutitshala imizuzu engakho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebati ngeveki (± 5)		Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
Isihloko	Abanqaku angcaciso		lindidi zezinto eziseklasini nezokungqongileyo	Usuku olunye	
3.2 Izinto ezinokwakheka kuka 3-D	<p>Ukuqonda/ ukunakana, ukuchonga nokuxela imilo ezinokwakheka kuka 3-D no 2-D eklasini nemifanekiso</p> <p>Ukwenza bakwazi ukwahlula phakathi kwezinto ezifotwe zankulu ngaphambili nezo zincinci ngasemva.</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Utitshala ubeka izinto ezahlukeneyo eklasini naphandle kwibala lokudlalala:</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Babonise izinto ezahlukeneyo eklasini umz izinto ezenziwe ngemithi, izinto ezibomvu, izinto ezenziwe ngeplastiki njalo njalo - Jonga izinto ezithile eklasini ngokomyalelo katitshala umz ibhola kwisikhongozeli sebhloko ye Lego, ithoyi yemoto esekhhabhathini, epensile esenkxoneni njalo njalo.. - Jonga izinto ezifanayo umz amaqhosha angqukuva kulawo ambhoxo, iqamza elibomvu phakathi kwalawo anemibala, njalo njalo. - Hlela izinto ngokweentlobo zazo umz. ubungakanani, umbala, imvakalo okanye imilo. - Dlala umdlalo, "Ndiyalonda ngamehlo am amancinci, into engqukuva....." - Jonga izinto ezifanayo ngokomyalelo katitshala umz. intaka emthini, iribhoni esemthini, iintyatyambo ezintle, imbovane ihamba emagqabini njalo njalo. - Emakhaya abafundi mabakhuthazwe ukuba bakhuphe amacephe/ iimela/ iifolokhwe 		<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D/ imifanekiso</p> <p>Bonisa abantwana umfanekiso ze ubabuze imibuzo ehambelana nomfanekiso.</p> <p>Umz:</p> <ul style="list-style-type: none"> - "Iphehe ntoni intombi encinci esandleni sayo.? - "Bangaphi abantu abakhwele iinqanawe? - Yakha iiphazili ze udla imifanekiso yedomino elungele ukukhulisa ulwazi labafundi olkuchonga izinto phakathi kwezinye nokuqaphela iinkcukacha . 	<p>Nawuphina umfanekiso omkhulu oxoxwayo (ipowusta)</p> <p>Iiphazili</p> 	
3.3 Iimilo ezinokwakheka kuka 2-D					

Iveki 4 Ukuqala ukufundisa amanani	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokhelwa ngutitshala imizuzu engakho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebhatika ngeveki (± 5)	
Isihloko	Abanqaku angcaciso	Isihloko
<p>3.2 Izinto ezinokwakheka kuka 3-D</p>	<p>Abanqaku angcaciso</p> <p>Ukuqonda/ ukunakana, ukuchonga nokuxela izinto ezinokwakheka kuka- 3-D ngokuphonononga imilo nobungakanani beebhokisi</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Ukugwencela ngaphakathi nangaphandle kwebhokisi. - Hlola ibhokisi ngaphakathi ngokuthetha ngokuthi uxele ukuba yintoni engaphakathi. Umz. ibhokisi inomgangatho/ umphantsi, amacala amane/ amacala nesiciko. - Songa ibhokisi evuliweyo ukujonga imilo. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Sebenzisa iibhokisi ukwakha isakhiwo umz. indlu, igaraji (kwenze xa usebenzisa ubuchule obubonwayo ngeebhokisi ezinobungakanani obungafaniyo) - Nika abafundi izinto ezahlukeneyo ezifana namaqhosha, iibhloko ezingangcitywanga, iziciko zebhotile, iiklipu zesonka zeplastiki. <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Hlela izinto ngokwamaqela ohlobo olunye - Jonga umahluko phakathi kwezinto - Jonga ukuba ziziphi izinto ezisisikwere nezingqukuva - Hlela izinto ezimbala mnye 	<p>Abanqaku angcaciso</p> <p>Usuku olu- 1</p> <p>Isihloko</p>  <p>lindi zeebhokisi ezinkulu nezincinci (ifriji engenanto neebhokisi zesitovu)</p>  <p>iibhloko ezingangcitywanga (unifix blocks) ,iziciko zebhotile, iiklipu zesonka zeplastiki.</p> <p>(abafundi bangeza nazo emakhaya)</p>

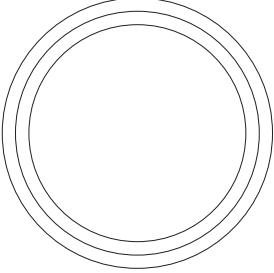
Iveki 4 Ukuqala ukufundisa amanani	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokhelwa ngutitshala imizuzu engekho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebati ngeveki (± 5)			Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
Isihloko	<p>Abanqaku angcaciso</p> <p>Ukuqonda/ ukunakana, ukuchonga nokuxela izinto ezinemilo ezinokwakheka kuka-2-D eklasini nemifanekiso.</p> <ul style="list-style-type: none"> - unxantathu <p>Ukufundisa unxantathu</p> <p>Xa ufundisa unxantathu okokuqala izinto emazisetyenziswe mazifane ncakasana ngandlela zonke (ubungakanani obunye, umbala omnye, inkangeleko enye) Unxantathu unamacala amathathu angqalileyo. Loo nto ibizwa ngokuba ngunxantathu.</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Benza imilo ngemizimba yabo umz. abafundi benza unxantathu ngemizimba yabo. - Benza unxantathu besebenzisa iminwe yabo. - Benza unxantathu besebenzisa izicwili zoboya okanye udongwe. - Hamba emdeni wemilo kanxantathu. Ngexesha uhamba thetha, ' ndihamba ecaleni lika nxantathu, icala, linye, mabini, mathathu, okanye inye.zimbini,zintathu iikona. - Bamba imilo. Sebenzisa ubungakanani obukhulu bemilo okanye beka imilo eyahlukeneyo ebhegini. Umfundi makabambe imilo esebhegini ze azidibanise zibe yisethi yamakhadi, amakhadi amilo yenziwe kuzo). - Zoba imilo engunxantathu emoyeni, phantsi/emgangathweni nge- (itshokhwe) nasephepheni. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Hlela imilo eLogi ngokwemilo (isangqa nonxantathu), ubungakanani (enkulu nencinci) kunye nombala (ibomvu, iqanda, ibhlowu) - Khangela iimilo ezingoonxantathu eklasini nakokusingqongileyo. 			Amakhadi emidlalo akhumbuza ngemilo	<p>Uboya okanye udongwe.</p> <p>“ibhegi” (ibhegi yelaphu ene-elastikhi emantla) enemilo yeijyometri.</p> <p>Isethi yamakhadi adityanisiweyo anemilo ezotyweyo.</p>	Usuku olunye
<p>3.3</p> <p>Izinto ezinokwakheka kuka 2-D</p>						
<p>Ukuchaza, ukuhlela nokuthelekisa izinto ezinokwakheka kuka 3-D no- 2-D.</p>				Iphepha i-A4 nekhrayoni	Imilo ze-Logi (logi shapes)	Izinto eklasini nakokusingqongileyo.




Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokhelwa ngutitshala imizuzu engekho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebhatika ngeveki (± 5)			
Iveki 5	Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
1.1 Ukubala izinto	<p>Chaza ze uchonge amanani apheleleyo</p> <p>Ukubethelela ulwazi olufumene kwiveki yesi -4 oluquka inani -1.</p> <p>Ngomlomo: ukubala ngokucengeleza ukusuka kwisinye ukuya kwisihlanu.</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Yenza izandi zomzimba umz ukuqhweba izandla kanye. - Utitshala uveza/ ubonisa unotsheluzo obonisa inani: inye ze abantwana baphakamise umnwe omnye, isandla esinye, ngonyawo olunye njalo njalo. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Fumana into ibenye ekilasini - Bala isixhobo sokubala kanye. 	<p>Inani lamaculo nezicengelezo</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Umfanekiso we-nto enye </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 1 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Inye </div> </div>	<p>Usuku olu- 1</p>
		<p>into enye</p> <p>Isixhobo esinye sokubhala</p>	
		<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D/ imifanekiso</p> <ul style="list-style-type: none"> - Tshatisa iindidi zomfanekiso omnye, kunye nonotsheluzo omnye wedothi. - Tshatisa iindidi zemifanekiso kunye nonotsheluzo wedoti nesimboli yenani elinye - Tshatisa isimboli yenani nenani legama likanotsheluzo. - Yenza iphazili yenani ze uyeke abantwana bazidibanise umz. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 1 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Inye </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 1 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 1 </div> </div>	<p>lindidi zonotsheluzo ezinomfanekiso omnye kunye nedothi enye</p> <p>Unotsheluzo onesimboli elinani negama lenani</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Umfanekiso wento enye </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> 1 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Inye </div> </div>


Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ochwangcisiweyo okhokhelwa ngutitshala imizuzu engekho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebhatika ngeveki (± 5)			
Iveki 5	Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
3.4 Ulingano -macala	<p>Abanqaku angcaciso</p> <p>Ukomeleza/ukuqinisa ukuqonda ukuba umzimba omnye unamacala amabini umz icala elinye, elinye icala, ukuya ekhohlo nasekunene</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Utitshala ucacisa ngamacala amabini omzimba omnye.</p> <p>Yenza abafundi</p> <ul style="list-style-type: none"> - Yima ngomlenze omnye ze uphinde ume ngomnye. - Hamba ngesingqi usebenzisa isingqi sesihlukuhi ukuya kwicala elinye leklasi. Xa isihlukuhi siyekile abantwana mabaye kwelinye icala leklasi. <p>Ukusebenzisa izinto eziphathekayo ezinokwakhaka kuka 3-D</p> <p>Umfundi ngamnye unikwe ibhin bhegi(bhinbhegi)</p> <p>Yenza abafundi</p> <ul style="list-style-type: none"> - Beka ibhinbhegi phantsi ecaleni kwabo. - Beka ibhinbhagi iinzwane nezandla njalo njalo. - Beka ibhinbhegi phantsi kwelinye icala lemzimba ze baphinde baye kwelinye icala. - Ukomeleza lo mba unxulumaniso nobuchule obubonwayo ngokuyeka abantwana benze umfanekiso webhabhathane. <p>(Songa iphepha libe yihafu/isiqingatha, galela am./aqabaza epeyinti emigceni esongiweyo; songa esiphakathini ze usasaze ipeyinti ngokukhuhla umfanekiso; vula ujonge ibhabhathane; sika umgca ongumda – ibhabhathane linamacala amabini alinganayo.</p>	<p>Isihlukuhi senziwa ekhaya – isikhongozeli nesiciko, sizaliswe ngamatye.</p> <p>ibhinbhegi yomntwana ngamnye</p>	<p>Usuku olu- 1</p>
3.2 Izinto ezinokwakhaka kuka 3-D	<p>Ukuqonda, ukuchonga ze uxele izinto ezinokwakhaka kuka 3-D</p> <p>Ukufundisa nokuphononga izinto eziqengqelekayo</p> <ul style="list-style-type: none"> - Xoxa ngobungqukuva bezinto. Faka izinto ezingqukuva zibe ninzi ebhegini (ibhegi yelaphu). Abafundi bathatha izinto ebhegini baze bachaze ubungqukuva bazo. - Abafundi babonisa ukuba izinto ezahlukeneyo ziqengqeleka njani ukuhla zinyuka etafileni nezitena ezibini. 	<p>“ingxowa yokuphampatha” (ibhegi eyenziwe ngelaphu eneplastiki emantla)</p> <p>Ngaphakathi ebhegini kukho:</p> <p>Iibhola ezinesayizi ezahlukeneyo, amaqam, iinkonkxa zesiselo ezingenanto, isilinda, imilo yepplastiki okanye imilo yesiciko sebhottle seplastiki.</p>	<p>Usuku olunye</p>

Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokhelwa ngutitshala imizuzu engekho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebatika ngeveki (± 5)			
Iveki 5	Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
3.1 Indawo-bume, uku-fumana indawo, nembonakalo	<p>Indawo-bume yezinto ezimbini okanye ezininzi ngokunxulumene nomfundiChaza izinto enye enokwakheka kuka 3-D ngokunxulumene nenye</p> <ul style="list-style-type: none"> - Ngaphambili / ngasemva <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Utitshala ukhetha abafundi ababini nesicengelezo esibalayo:</p> <ul style="list-style-type: none"> - Beka izitulo ezibini ngaphambili eklasini. - Abantwana ababini babonisa ngalo mba ngaphambili nangasemva ngokwemiyalelo katitshala. Umz <ul style="list-style-type: none"> o Sipho yima ngaphambili kwesitulo o Carl yima emva kwesitulo - Xa sele iphumelele utitshala uphakamisa unotsheluzo ze abafundi babonakalise isenzo besebenzisa izitulo zabo. <ul style="list-style-type: none"> o "oku kungabonakaliswa kwakhona ngokusebenzisa abantwana abathathu. - Amy uma emva kuka Sipho, ze uCarl ame ngaphambili kuka Amy. - Utitshala unika abafundi idayisi elikhulu elimifanekiso eyahlukileyo ebonisa " umphambili nomva" ubhale emacaleni umz yima ngaphambili komnye onenwele ezinde, yima ngasemva kwalo mntu unxibe ibhulukhwe; hlala phambi komnye njalo. - Yenza badlale umdlalo bengamaqela bephoselana ngedayisi ze benze ude uye kuphela. 	<p>Izitulo</p> <p>Abafundi</p> <p>Onotsheluzo ababonisa isenzo eso ngaphambili nangasemva</p>  	<p>Usuku olu- 1</p>

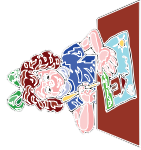

Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ochwangcisiweyo okhokhelwa ngutitshala imizuzu engekho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebhatika ngeveki (± 5)			
Iveki 5	Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
3.2 Izinto ezinokwakheka kuka-3-D	<p>Abanqaku angcaciso</p> <p>Thelekisa ukuba ziziphi izinto ezimbini ozinikiweyo ezi: nkulu kunenye ze ibe ncinci kunenye</p> <ul style="list-style-type: none"> • Ukubethelela ingqiqo - inkulu (inkulwana)kunenye ze ibe ncinci kunenye (incinanana) <p>Ukufunda usebenzisa intshukumo yomzimba Yenza abafundi:</p> <ul style="list-style-type: none"> - Benza imizimba yabo ibe mikhulu ngokutweza iingalo zabo ngaphezu kweentloko zabo. - Benza imizimba yabo ibe mincinane ngokugoba ze baziqothe. - Xela ukuba ingabainja inkulu na kunempuku. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Sebenzisa rhoqo ubuncinane izinto ezimbini xa uthlekisa.</p> <ul style="list-style-type: none"> - Thelekisa ubungakanani obahlukeneyo bebhloko efanayo umz iibhola, amaqhoshha, itafile, iipleyiti, izitulo njalo ukufumana ukuba yeyiphi into enkulu/incinci, enkudlwana/ encinanana, enkulu kakhulu/nencinci kakhulu.” - Yaba izakhiwo ngeebhloko ze abafundi bathelekise ezo zakhiwo zikhulu kakhulu nezo zincinci kakhulu. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Thelekisa imifanekiso ebonisa izinto ezinkulu nezincinci nezinkudlwana nezincinanana. - Sebenzisa ukuqonda ubukhulu / nobuncinci kubugcisa boyilo. 	<p>Umfanekiso wempuku nowenja (qiniseka ukuba umfanekiso wenja mkhulu kunomfanekiso wekati)</p> <p>Izinto eklasini umz iibhloko, iibhola, iipleyiti, amaqhoshha, amaso, izinti, iiphegi, iibhokisi, iinkonkxa, amabhastile, iziciko, amaqokobhe, iziciko zeebhottle, njalo njalo.</p> <p>Imifanekiso ebonisa ubukhulu nobuncinci</p>	<p>Usuku olu-1</p>

Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokhelwa ngutitshala imizuzu engekho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebatika ngeveki (± 5)			
Iveki 5	Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
<p>3.2 Izinto ezinokwakheka kuka-3-D</p>	<p>Thelekisa ukuba kwezi zinto zimbini uzinikiweyo yeyiphi:</p> <ul style="list-style-type: none"> - Enkulu nencinci - Enkulu kunenye nencinci kunenye - Enkulu kakhulu ze ibe ncinci kakhulu <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Utitshala uzoba isangqa esantini, phantsi.</p> <ul style="list-style-type: none"> - Abafundi bahamba emdeni wesangqa. <p>Utitshala uzoba isangqa esikhulu kunesinye kumphandle kwesangqa</p> <ul style="list-style-type: none"> - Abafundi bahamba emdeni wesangqa esikhulu kunesinye. - Utitshala ubuza imibuzo enje ngale: <ul style="list-style-type: none"> o "Sesiphi isangqa esincinci kakhulu?" o "Sesiphi isangqa esikhulu kakhulu?" o "Hamba kwisangqa esincinci" o "Hamba kwisangqa esikhulu" <p>Utitshala uzoba isangqa esikhulu kakhulu ngaphandle kwesangqa.</p> <ul style="list-style-type: none"> - Abafundi bahamba emdeni wesangqa esikhulu kakhulu, kananjalo - Utitshala ubuza imibuzo enje ngokuthi: <ul style="list-style-type: none"> o Sesiphi isangqa esikhulu kakhulu?" o "Sesiphi isangqa esincinci kakhulu?" 	<p>izangqa ezikhulu nezincinci ezizotywe esantini okanye phantsi.</p> 	<p>Usuku olu-1</p>

Iveki 5	Umyinge wexesha lokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokhelwa ngutitshala imizuzu engekho ngaphantsi kwabashumi abathathu ngosuku (± 30), imizuzu engakho ngaphantsi kwesihlanu umsebenzi webathebhatika ngeveki (± 5)		
Isihloko	Abanqaku angcaciso	Isihloko	Abanqaku angcaciso
<p>3.2 Izinto ezinokwakheka kuka-3-D</p>	<p>Ukusebenzisa izinto eziphathekayo esinokwakheka kuka 3-D Abafundi bahlela ze bathelekise izinto ezinobungakanani obahlukeneyo umz (inkulu kakhulu, incinci kakhulu) umz.</p> <ul style="list-style-type: none"> - Isiciko esikhulu ukusuka kwesincinci. - Amacephe ukusuka kwamancinci - Ibhokisi ezinkulu ukusuka kwezincinci <p>Lo msebenzi ungadluliselwa kwimidlalo yangaphandle (umdlalo wesanti nomdlalo wamanzi) apho abafundi Bangathelekisa izinto ze bathethe okokuba yeyiphi encinci kunenye/enkulu kunenye, enkulu nencinci</p> <p>Oku kunganxulunyaniswa nobugcisa bokubonwayo – mabenze umfanekiso owenziwe ngamaphepha besebenzisa izinto ezinkulu nezincinci.</p> <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Badlale imidlalo yamakhadi ze bachonge imifanekiso emincinci/ emikhulu/ emikhulu kakhulu. - Buza imibuzo enje: “Yeyiphi intlanzi yokuqala okanye yeyiphi intlanzi yokugqibela?” “Yeyiphi intlanzi ephakathi?” 	<p>iibhloko zokwakha neebhola zobungakanani obahlukeneyo. Amaqhosha, amacephe, iibhokisi zamayeza, iibhokisi zezihlangu, amakhathoni obisi angenanto, iibhotile zamayeza ezingenanto, njalo njalo</p> 	<p>Abanqaku angcaciso</p>
		<p>- Gqithela koonobumba ukuze abafundi bakhumbule ukuba imifanekiso imele amagama. Akunyanzelekanga ukuba abafundi mabafunde oonobumba.</p> 	

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)			
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
1.1 Bala izinto	<p>Qikelela uze ubale izinto zemihla ngemihla ngokuzithemba.</p> <p>Ukubala kwemihla ngemihla</p> <ul style="list-style-type: none"> - Ngomlomo: Ukubala ngokucengeleza ukusuka kwisi-1 ukuya kwisi-5. - Cula iingoma nezicengelezo zamanani. 	lingoma nezicengelezo zamanani.	Rhoqo ngosuku.
2.1 Iipateni zejijometri	<p>Ukukopa nokwandisa iipateni usebenzisa ipateni yokubetha amalungu omzimba</p> <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <ul style="list-style-type: none"> - Utitshala ubonisa ngepateni yokubetha amalungu omzimba kwaye abafundi kufuneka bakope ipateni, umzekelo, qhwaba qhwaba, ngxishi; qhwaba qhwaba, ngxishi;..... njalo njalo..... <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <p>Kopa ipateni enezinto, umzekelo:</p> <ul style="list-style-type: none"> - Ukusebenzisa iindidi ezahlukeneyo zamagqabi. - Ukusebenzisa iimilo, umzekelo, isangqa, isangqa, unxantathu, isangqa, - Ukusebenzisa izinto, umzekelo, iphegi ebomvu, iphegi ebhlowu, iphegi etyheli, iphegi ebomvu,..... <p>Ukusebenzisa imifanekiso /iimilo ezinokwakheka kuka 2-D.</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Ukuyila iipateni zabo ngamakhadi anemifanekiso, umzekelo, iintyatyambo, igqabi, igqabi, intyatyambo..... - Ukuyila iipateni zabo ngamakhadi anemibala, umzekelo, ubomvu, ubhlowu, ubomvu, ubomvu..... - Ngexesha lobugcisa boyilo yalela abafundi bashicilele iipateni basebenzise imisiko yeemilo. 	<p>Abafundi.</p>  <p>limilo zelogi. Iphegi -bhodi yazo.</p>	Usuku olu-1.

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)			
Iveki 6	Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa
			Ixesha elithelelelwayo
			Usuku olu-1.
3.3	Izinto ezinokwakheka kuka 2-D	<p>Amanqaku angangcaciso</p> <p>Qaphela, chonga uze uthiye isikwere. Fundisa ngesikwere. Xa ufundisa ngesikwere okokuqala, izinto ezisetyenzisiweyo mazifane twatse (ngobungakanani, ngombala nemvakalo/noburhabaxa). Isikwere sinamacala amane. Oku kubizwa ngokuba sisikwere.</p> <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <ul style="list-style-type: none"> - Iklasi yonke ima ibe sisikwere. - Yalela abafundi beseso sikwere basenzileyo ngentambo bahambe kwikhaphethi besithi, "Ndihamba kwisikwere – kwicala elinye, kumacala amabini, amacala amathathu, amacala amane – onke amacala ayafana?" - Yalela amaqela abafundi benze izikwere ezincinane. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <ul style="list-style-type: none"> - Utitshala ubonisa umahluko phakathi kwesangqa nesikwere ngokuphakamisa isiciko senkonkxa nethayile esisikwere. - Isiciko singqukuva ize ithayile ibe neencam neekona. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Utitshala uzoba erhangqele isiciko nethayile. - Isiciko simele isangqa nethayile imele isikwere. - Yalela abafundi bathreyise berhangqele isiciko nethayile besebenzisa iikhrayoni. 	<p>Abafundi. Intambo.</p> <p>Isiciko senkonkxa. Ithayile esisikwere. Iindidi ezahlukeneyo zeziciko nezinto ezimile ngokwesikwere. Amaphepha okubhalela. Iikhrayoni.</p>
			Amakhadi eemilo. Izinto ezinokwakheka kuka 3-D no2-D ezinjengeebhloko, iibhloko zeLego ezinjengemidlalo yokubakhumbuza ngeemilo ezifana nokuba "Yintoni ekwisikwere?"
3.2	Izinto ezinokwakheka kuka 3-D	<p>Qaphela, khetha uze uxele</p> <ul style="list-style-type: none"> • izinto ezinokwakheka kuka 3-D ezitshebelelayo <p>Fundisa ngezinto ezitshebelelayo.</p> <ul style="list-style-type: none"> - Nika abafundi iindidi ezahlukeneyo zezinto ezahlukeneyo ezinokwakheka kuka 3-D kunye no -2-D njengeebhloko, iibhokisi, iibhola, njalo njalo. - Yalela abafundi balinganise ngokudlala ngokubonisa ukuba ziziphi izinto ezitshibilizayo nokuba ziziphi eziqengqelekayo. 	<p>Iibhloko. Iibhola. Iibhokisi. Isilayidi / itheyibhile eneebhloko.</p>
			Usuku olu-1

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)			
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelekelelwayo
<p>Iveki 6</p> <p>3-1 Indawo-bume, ukufumana indawo nembonakalo</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> - Abafundi banokusebenzisa isitshebelezi kwindawo yokudlala okanye utitshala unokusebenzisa itafile ukwenza indawo ehlayo ngokubeka iibhloko ezi-2 ngaphantsi kwazo. - Ingaba zikho ezinye izinto ezitshibilika ngokunyukayo? - Ziziphi izinto ezitshibilikela ngasezantsi? - Kutheni ezi zinto zikwazi ukutshibilika? <p>Chaza izinto ezinokwakheka kuka 3-D ngokunxulumene nenye</p> <ul style="list-style-type: none"> • Fundisa la magama: ngaphakathi / ngaphantsi, ngasezantsi / ngaphezulu. <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <ul style="list-style-type: none"> - Umfundi ngamnye uhlala esitulweni sakhe. - Abafundi bamamela imiyalelo katitshala baze balandele eli xa imisebenzi eyenziwayo, umzekelo, hlala esitulweni, lala phantsi kwesitulo. - Chopha phezu kwesitulo. Hlala phantsi kwetafile. - Beka izandla zakho entloko. - Beka izandla zakho phantsi kweenyawo. - Beka ibhinqheli phantsi kwekhwapha. - Chopha phezu kwebhinqheli. - Beka ihupu phantsi kwamadololo akho. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Yalela abafundi ababini babambe intambo yokutsiba baze abanye beklasi barhubuluze phantsi kwentambo. - Khangela into phantsi kwekhaphethi / kwetafile / ibhokisi njalo njalo. <p>Sebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Utitshala unika abafundi iindidi zemifanekiso engamagama angala: ngaphantsi, ngaphakathi nangaphezulu abonisiweyo, umzekelo, umntu okhwele ihashe, usana olulele phantsi kwengubo, njalo njalo. <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Chonga amagama angala: ngaphantsi, ngaphezulu, nangaphakathi emifanekisweni. 	 <p>Isitulo somfundi ngamnye</p> <p>ngaphezu kwetafile.</p>  <p>ngaphantsi / ngasezantsi</p>	<p>Usuku olu-1</p>

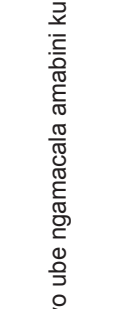

Iveki 6	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa
<p>4.1</p> <p>Ixesha</p>	<p>Chaza ixesha losuku ngokosuku nobusuku / ukukhanya nobumnyama.</p> <ul style="list-style-type: none"> • Fundisa ngamagama angala: “usuku / ubusuku”, “ukukhanya / ubumnyama”. Nxulumanisa oku nezihloko zoL wazi olusisiSeko kwiZakhono zoBomi. <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <ul style="list-style-type: none"> - Ziqhelanise nobumnyama ngokuhlala phantsi kwetafile nezitulo ezogqunywe ngengubo. - Yenza mnyama iklassi ngokuvala imikhusane nokucima izibane. - Abafundi bathetha ngamava abo kumnyama eklasini naxa kukhanya. - Khupha ithotshi ukhanyise phantsi kwengubo. - Thetha ngemisebenzi eyenzekayo ebusuku nasemini. <p>Sebenzisa iimilo ezinokwakhaka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Utitshala wenza iphowusta yelanga nenyanga aze akhuphe imifanekiso ebonisa okwenzekayo ngexesha lasemini nasebusuku. - Abafundi mababeke imifanekiso phantsi kwelanga kunye / okanye kwenyanga. 	<p>Izitulo neengubo. Ithotshi.</p>  <p>Ipowusta yemini nobusuku. Imifanekiso engemisebenzi yexesha lasemini nexesha lasebusuku.</p> 
		<p>Ixesha elithelelelwayo</p> <p>Usuku olu-1</p>

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutishala (isangqa) wemizuzu engama-t-30 ngosuku (imisebenzi yeMathematika emi-t-5 ngeveki)			
Iveki 7	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelekelelwayo
<p>Isihloko</p> <p>3.3 Izinto ezinokwakheka kuka 2-D</p>	<p>Nakana, khetha uze uxele iimilo ezinokwakheka kuka 2-D eklasini</p> <ul style="list-style-type: none"> • Fundisa ngeephazili uze unike isikhokelo ngendlela yokuzenza. <ul style="list-style-type: none"> - Xoxa ngephazili yemfanekiso unike ingqwalasela eyodwa kumbala, abantu / izilwanyana, izinto, indawo yokuma kwabantu / kwezilwanyana nezinto. - Ukwalatha, ukuqaphela nokutshatisa iindidi ezahlukeneyo zezicwili zeephazili, umzekelo <ul style="list-style-type: none"> o izicwili zeekona. o izicwili ezinecala elinye elingqalileyo. <p>Uyakha njani ipazili</p> <ul style="list-style-type: none"> - Pakisha zonke izicwili zeepezili ngokuzijongisa phezulu - Chonga iikona zezicwili zeepezili uze utshatise umbala, into njl-njl nazo ngeekona zeepezili - Yakha isakhelo esinekona ezi-4 usebenzisa zonke izicwili ezinecala elinye - Ukuba umfundi uyasokola unokwakha ipazili phezu komfanekiso abawunikiweyo - Zonke iipazili kufuneka zigqityiwe phambi kokuba uzipakishe 	<p>Iindidi zeephazili – ubuncinane izicwili ezi-6.</p>	<p>Usuku olu-1</p>

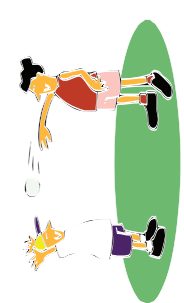
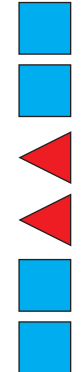
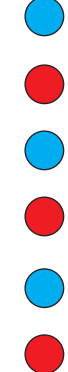


Ixeshha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-t-30 ngosuku (imisebenzi yeMathematika emi-t-5 ngeveki)			
Iveki 7	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixeshha elithelekelelwayo
Isihloko			Usuku olu-1
3.1 Indawo- bume, ukufumana indawo nombonakalo	<p>Amanqaku angangcaciso</p> <p>Chaza into enye enokwakheka kuka 3-D ngokunxulumene nomfundisi.</p> <ul style="list-style-type: none"> - ngaphakathi / ngaphandle • Indawo ezimi kuyo izinto ezimbini okanye ngaphezulu ngokunxulumene nomfundisi. - ngaphakathi / ngaphandle <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <ul style="list-style-type: none"> - Utitshala usebenzisa iteyiphu yephepha okanye intambo yokutsiba ukwenza imigca emibini emgangathweni. - Abafundi bema bonke kwicala elinye aze utitshala akhwaze, "emlanjeni (Bonke abafundi kufuneka batsibele phakathi kwemigca emibini, baze bakhwaze "ngaphandle komlambo." Abafundi mabatsibele bonke kwicala ngalinye lemigca emibini. - Abafundi aBangawulandeliyo umyalelo ngokuchanekileyo bayaphuma kwaye abaqhubeki nokudlala. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Beme qelele kancinane nebhasikithi / ibhaskithi. - Baphose ibhinbhegi (<i>bhinbhegi</i>) ebhaskithini. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Abafundi bazoba umfanekiso obonisa ngongaphakathi nongaphandle. 	<p>Umdlalo: Emlanjeni (phakathi kwemigca emibini), ngaphandle komlambo (ngaphandle kwemigca emibini).</p> <p>Iintambo ezi-2 zokutsiba.</p> <p>Iemerana okanye ibhaskithi.</p> <p>Iphepha neekhrayoni.</p>	

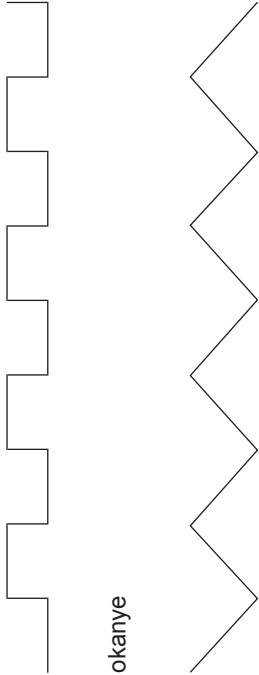
Iveki 7	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-t-30 ngosuku (imisebenzi yeMathematika emi-t-5 ngeveki)
Isihloko	Ixesha elithelelelwayo
<p>3.1 Indawo-bume, ukufumana indawo kunye nembonakalo</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Indawo ezime kuyo izinto ezimbini okanye ngaphezulu ngokunxulumene nomfundi. Ngaphezulu / ngaphakathi / ngaphantsi Ukufunda usebenzisa intshukumo yomzimba: Yalela abafundi balandele imiyalelo: <ul style="list-style-type: none"> - Beka ibhloko ebomvu ngaphezu kwentloko yomhlobo wakho. - Beka ibhloko etyheli ngaphantsi / ngasezantsi kwetafile. - Thwala ibhloko entloko uze ukhwele etafileni. - Rhubuluza phantsi kwetafile uvale amehlo. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D: Yalela abafundi:</p> <ul style="list-style-type: none"> - Pakisha oonxantathu ngaphezu kwabanye. - Pakisha izikwere ezibhlowu ngaphezu kwezinye. - Beka isangqa esibomvu ngaphantsi kwesikwere esityheli. - Beka isangqa esityheli nonxantathu obomvu ngaphantsi / ngasezantsi kwesikwere esibhlowu. <p>Ukusebenzisa izinto ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Utitshala wenza amakhadi anemifanekiso kunye namakhadi aneemilo. - Abafundi mababeke iimilo ngaphezu / ngaphantsi / ngasezantsi komfanekiso ngokuyalelwa ngutitshala. <p>Umzekelo, beka isikwere esibhlowu ngaphezu kwebhaskithi yeziqhamo.</p>
	<p>Izixhobo ezinokusetyenziswa</p> <p>Ibhloko zokwakha / iibhloko zeyunifiksi (unifix blocks).</p> <p>Iimilo zeLogi (logi shapes).</p> <p>Imifanekiso eyahlukeneyo.</p> <p>Amakhadi eemilo.</p> 

Iveki 7	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (Isangqa) wemizuzu engama-t-30 ngosuku (imisebenzi yeMathematika emi-t-5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa
<p>3.1</p> <p>Ulingano-macala</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Bethelela kulwazi ngamacala alinganayo omzimba wakhe. <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Baxela amalungu emizimba yabo. - Mabacule nayiphi ingoma malunga nomzimba. <p>Utitshala ubonisa abafundi ulingano macala (isimetri) ngokuxhoma intambo phambi komfundi.</p> <ul style="list-style-type: none"> - Abafundi kufanele bazi ukuba imizimba yabo yahlulwe yangamacala amabini. 	<p>Usuku olu-1.</p> <p>Ingoma: Intloko namagxa, sifuba nesingq, madolo nenzwane.”</p> <p>Intambo yokubonisa. Imizimba yabafundi.</p>
	<p></p> <p>Utitshala ucacisa ngendlela umzimba owahlulwe ngayo ube ngamacala amabini kuze kubekho umgca ophakathi.</p> <ul style="list-style-type: none"> - Yonke into anayo umntu inezinto ezimbini kumacala amabini omzimba, umzekelo, amehlo, iindlebe, iingalo, imilenze, njalo njalo. - Yonke into anayo umntu inento enye ebekwe kumgca ophakathi, umzekelo, impumlo, umlomo, umbhono. <p>Ukuqhuba nokufundisa ngolingano-macala (ngesimetri), yalela abafundi:</p> <ul style="list-style-type: none"> - Matsha, uphakamise amadolo phezulu. - Matsha 'okwejoni elomeleleyo lenkonkxa.' - Nqumleza iingalo, nqumleza imilenze elixa umatshayo. - Nxulumanisa oku nobuGcisa baseqongeni beZakhono zoBomi. <p>Ukusebenzisa iimilo ezinokwakhela kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Zoba imifanekiso engagqibelelanga ephapheni uze uyalele abafundi bagqibezele umfanekiso. 	<p>Imifanekiso engagqitywanga.</p> <p></p> <p></p>


Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-t-30 ngosuku (imisebenzi yeMathematika emi-t-5 ngeveki)			
Iveki 7	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>Isihloko</p> <p>3.1</p> <p>Indawo- bume, ukufumana indawo nembonakalo</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Iindawo ezimi kuyo izinto ezimbini okanye ngaphezulu ngokunxulumene nomfundi. <ul style="list-style-type: none"> - Phezulu nangasezantsi. <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Babonise ngamagama “phezulu” “phantsi” ngokushukumisa imizimba yabo iye phantsi naphantsi ngokomyalelo katitshala. - Bakhwele kwizitephsi ezibini eli xa ubala inani lazo. - Mabehle kwizitephsi ezibini bebala. - Bakhwela “phezulu” “phantsi” kwisixhobo sokukhwela esiphandle. - Bakhwela “phezulu” “phantsi” kwintambo yokukhwela ileli xa isikolo sinayo. - Bajonga phezulu naphantsi. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Utitshala unika abafundi iindidi ezahlukeneyo zemifanekiso malunga nophezulu nophantsi njengoko kubonisiwe, umzekelo, umntu ukhwela phezulu entabeni, ibhaloni yomoya iya phezulu emoyeni ize ihle iye ezantsi, umntu uhla kwizitephsi, njalo njalo. <p>Yalela abafundi:</p> <ul style="list-style-type: none"> o Balathe uphezulu naphantsi kwimifanekiso. 	<p>Cula ingoma.</p> <p>Sebenzisa izitephsi ezikhoyo esikolweni. Ijungle gym (isixhobo sokugwencela). Ileli yentambo yokukhwela.</p> <p>Imifanekiso ebonisa uphezulu nophantsi, umzekelo izitephsi.</p> 	<p>Usuku olu-1.</p>

Iveki 8	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		Ixesha elithelelelwayo
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	
3.4	<p>Ulingano - macala</p> <p>3.4</p> <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Bayadanisa baze baxhume ngokwesingqisho elixa bebala. - Bamise bajongane baze bamane benqamleza beqhwaba (ngasekhohlo kubafundi abasekhohlo) becula ingoma engamanani / isingqisho. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Baphosela ugxa wabo ibhola xa bebala. - Bahamba kwintambo egosogoso becula ingoma, umzekelo, "Indlovu enye encinanane encikeleleyo." - Bakhabelana ibhola. <p>Umsebenzi ongasentla unokunxulunyaniswa neZakhono zoBomi.</p>	<p>Abafundi.</p> <p>lingoma nezicengelezo zamanani.</p>  <p>Ibhola, intambo.</p>	Usuku olu-1.
2.1	<p>lipateni zejijometri</p> <p>2.1</p> <p>Wenza iipateni zakhe.</p> <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <p>Yalela abafundi bayile ipateni besebenzisa:</p> <ul style="list-style-type: none"> - Imizimba yabo, umzekelo, intombazana enye enelokhwe, amakhwenkwe amabini aneebhulukhwe. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <ul style="list-style-type: none"> - Usebenzisa iimilo ezibomvu nezibhlowu, umzekelo, izikwere ezibhlowu ezi-2, oonxantathu ababomvu aba-2, izikwere ezibhlowu ezi-2..... - Sebenzisa ipateni kwimisebenzi yobugcisa ngokusebenzisa ipeyinti ebomvu nebhlowu eneziciko zebhotile. <p>Sebenzisa iimilo ezinokwakheka kuka 2-D usebenzisa imibala ephambili.</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Basebenzise oobhontsi ukushicilela umbala ngepeyinti, umzekelo, luhlaza, orenji, luhlaza.....kunye nencam yamaphepha. (Umsebenzi unokwenziwa ngobuGcisa obubonwayo). 	<p>Iimilo zeplastikhi eziBomvu neziBhlowu.</p>  <p>Usebenzisa iziciko zebhotile nepeyinti ebomvu nebhlowu.</p>  <p>bomvu luhlaza bomvu luhlaza bomvu luhlaza</p> <p>U-A4 Paper. Ipeyinti eluhlaza ne-orenji okanye nayiphi eminye imibala onayo.</p>	Usuku olu-1.

Iveki 8	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>3.2</p> <p>Izinto ezinokwakheka kuka 3-D</p>	<p>Amanqaku angangcaciso</p> <p>Qaphela, khetha uze uxele izinto ezinokwakheka kuka 3-D.</p> <ul style="list-style-type: none"> • Bethelela kwizinto eziqengqelekayo. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Badlala ngeebhotile zeplastiki, iinkonkxa, iibhola, i-orenji, njalo njalo baze baqwatalele okwenzekayo xa beziqengqela. <p>Utitshala uyabuza:</p> <ul style="list-style-type: none"> - Ziziphi iibhloko kwikona yeebhloko ezinokuqengqeleka? - Iibhloko azikwazi kuqengqeleka kuba zinamacala amathandathu angqalileyo kuphela. - Qengqa izinto ezahlukeneyo uze ubone ukuba yeyiphi enokuqengqeleka ikwa yeyiphi engakwaziyo. - Abafundi kufanele bazi ukuba izinto ezingqukuva zinokuqengqeleka. 	<p>Iibhotile zeplastiki.</p> <p>Iibhloko. Iibhloko zeLego.</p> <p>Iinkonkxa, iikomityi zeplastiki, iingqukumba zamaphepha angasese, amakhandlela, i-orenji, iibhola, njalo njalo.</p>	<p>Usuku olu-1.</p>
<p>3.1</p> <p>Indawo-bume, ukufumana indawo nembonakalo</p>	<p>Phuhlisa ulwazi ngezalathiso ngokufundisa amagama okwalatha “ngaphambili / ngasemva”, “umphambili / umva”.</p> <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <p>Yalela abafundi:</p> <p>Balandela izalathiso zikatitshala (uzimele kunye / okanye njengelungu leqela) nokuzibeka kwabo eklasini umzekelo,</p> <ul style="list-style-type: none"> - Mabeme “ngaphambili” eklasini. (thathele ingqalelo ngomphambili waseklasini apho ucango lukhoyo). - Mabeme “ngasemva” eklasini. - Mabaye phambili nasemva. - Mabarhubuluze baye phambili nasemva. - Mabaye phambili nasemva. 	<p>Abafundi.</p>	<p>Usuku olu-1.</p>

Iveki 8	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>3.1 Indawo-bume, ukufumana indawo nembonakalo</p>	<p>Utitshala uzoba ipateni emgangathweni ngetshokhwe okanye emgangathweni, umzekelo,</p>  <p>okanye</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Bayahamba / okanye barhubuluze emigceni yepateni. - Beka isicwili sephepha elibomvu kwiikona zimele irobhothi. Xa abafundi besezikoneni zabo kufuneka baguqule umzimba wonke ukubaqhelanisa nezalathiso. 	<p>Izotywe phantsi.</p> <p>Iphepha elibomvu.</p>	<p>Usuku olu-1.</p>
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Mabenze indlediana ngeebhloko zokwakha. - Mabatyhale ithoyi yemoto iye phambili nasemva ibe "kwindlela" eyakhiwe ngeebhloko. - Mabatyhale ithoyi yemoto ngokuyisa kwelinye icala nokuyisa kwelinye icala "lindlela" eyakhiwe ngokweebhloko. 	<p>Iibhloko zokwakha.</p>	

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)	Ixesha elithelekelelwayo								
Izixhobo ezinokusetyenziswa	Ixesha elithelekelelwayo								
<p>Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)</p>	<p>Ixesha elithelekelelwayo</p>								
<p>Isihloko</p> <p>5.1 Qokelela ,uhlele izinto</p> <p>5.2 Bonisa ingqokelela yezinto ezihleliweyo.</p> <p>5.3 Ukuxoxa nokunika ingxelo ngengqokelela ehleliweyo yezinto</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> Fundisa ngokuSetyenziswa kolwazi (besebenzisa imizimba yabo) ngokuqokelela izinto eklasini okanye kummandla wokusingqongileyo ngokweempawu ezixeliweyo, umzekelo: <p>Ukufunda usebenzisa intshukumo yomzimba: Yahlulahlula abafundi babe ngamaqela.</p> <ul style="list-style-type: none"> Kwiqela ngalinye yalela onke amakhwenkwe eme emgceni uze uyalele onke amantombazana eme emgceni kufutshane nasemakhwenkweni. Yalela abafundi babale inani lamakhwenkwe nenani lamantombazana kwiqela ngalinye. Ngoku ungakwazi ukugqibezela “igrafu yomzimba” yamakhwenkwe namantombazana ngokweqela ngalinye. <p>Into ephathekayo usebenzisa izinto ezinokwakheka kuka 3-D:</p> <ul style="list-style-type: none"> Abafundi banokusebenzisa ulwazi olungasentla ukuphuhlisa igrafu yezinto ezinokwakheka kuka 3-D ngokusebenzisa iibhloko / iimilo, njalo njalo olumele umfundi ngamnye. <p>Ukufunda nokubonisa igrafu. Sebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> Abafundi benza igrafu ngokusebenzisa udongwe ukwenza ibholana encinane emele indlela abatolika ngayo umsebenzi wangaphambili. Nika abafundi iphepha elinomfanekiso wentombazana nenkwenkwe ngaphezu kwephepha ngalinye lomfundi. Yalela abafundi baqengqe iibhola ezimele inani lamantombazana namakhwenkwe kwiqela labo. Abafundi babeka inani leebhola ngaphantsi komfanekiso ochongiweyo. 								
	<p>Usuku olu-1.</p>								
<p>Abafundi abeme kwimiqolo emibini.</p>	<table border="1"> <thead> <tr> <th>Iintombi</th> <th>Amakhwenkwe</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>2</td> <td>3</td> </tr> </tbody> </table> <p>Udongwe. U-A4 Paper.</p>	Iintombi	Amakhwenkwe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	3
Iintombi	Amakhwenkwe								
<input type="checkbox"/>	<input type="checkbox"/>								
<input type="checkbox"/>	<input type="checkbox"/>								
2	3								

Iveki ye- 9	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutits hala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa
<p>3.2</p> <p>Izinto ezinokwakheka kuka 3-D</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Ukunakana nokunokuphonononga izinto ezitshebelelayo neziqengqelekayo. Utitshala ubamba ibhola aze ayibhampise emgangathweni. Emva koko utitshala uthabatha ibhokisi enze kwangolo hlobo lwangaphambili. Utitshala uyabuza: <ul style="list-style-type: none"> - Yeyiphi into enokuqengqeleka? - Kutheni ibhokisi ingakwazi ukuqengqeleka? - Yeyiphi into enokutshebeleza? <p>Utitshala ubonisa abafundi ukuba ibhokisi inamacala amane (iikona) kwaye ayikwazi kuqengqeleka, kodwa ibhola ayinazo iikona kwaye iyakwazi ukuqengqeleka.</p> <ul style="list-style-type: none"> - Bakhuthaze abafundi bakhangele izinto eklasini ezinokuqengqeleka nokutshebeleza. - Qonda ukuba abafundi bayakwazi ukukhangela izinto ezinokuqengqeleka nezinokutshebeleza. 	<p>Ixesha elithelekelelwayo</p> <p>Usuku olu-1.</p> <div style="text-align: center;">  <p>Ibhola</p>  <p>Ibhokisi</p> </div>

Iveki ye- 9	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitsihala (Isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		Ixesha elithelekelelwayo
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	
3.3 Izinto ezinokwakheka kuka 2-D	<p>Ukunakana, ukuchonga nokuxela iimilo ezinokwakheka kuka 2-D ekilasini nakwimifanekiso.</p> <ul style="list-style-type: none"> - Isangqa <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Benza isangqa besebenzisa iminwe. - Benza isangqa besebenzisa izandla zozibini. - Bahlala ekhaphethini, benze isangqa eli xa bebambene ngezandla. - Bahamba kwisangqa esikhulu, esenziwe ngomsonoto ekhaphethini. - Badlala umdlalo apho abafundi bahlala kwisangqa baze bacule ingoma. <ul style="list-style-type: none"> o Umfundi omnye uma ngaphandle kwesangqa aze abaleke esijikeleza ephethe ibhola ngezandla zakhe. o Umfundi ukhetha ukubeka ibhola ngasemva kwaye nabaphi abafundi abahleli kwisangqa. o Umfundi okhethiweyo kufuneka aphakamise ibhola aze ayiphose komnye umfundi, eli xa abalekayo ejikeleza isangqa kwakhona andule ahlale kwisikhewu esikhoyo. o Xa ngaba ibhola ibethe umfundi obalekayo, kufuneka ahambe aye kuhlala phakathi esangqeni uze umdlalo uqhubeke. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Bakhangela izinto ezingqukuva ekilasini. - Bakhangela iimilo ezimele isangqa. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Utitshala uxela izinto baze abafundi bakhethe ukuba ziziphi na izinto ezingqukuva, umzekelo, i-orenji, i-apile, itafile, ibhola, imayibhile, incwadi, ibhokisi, njalo njalo. 	<p>Abafundi.</p> <p>Umtya.</p> <p>Ibhola ekhatywayo, ibhola yentenetya, ibhola yegalufa, i-apile, i-orenji, ihupu, njalo njalo.</p> <p>I-orenji, i-apile, itafile, ibhola, imayibhile, incwadi, ibhokisi.</p>	<p>Usuku olu-1.</p>

Iveki ye- 9	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutits'halo (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa
<p>3.1</p> <p>Indawo –bume, ukufumana indawo nembonakalo.</p>	<p>Indawo yento enye okanye ezimbini ngokunxulumene Ukufundisa ukufutshane / ngaphakathi – ngokudibene nombala.</p> <ul style="list-style-type: none"> • Ingqiqo – ecaleni kwe/phakathi: dibanisa nombala <p>Utits'halo ubiza abafundi abathathu.</p> <p>Ucacisa ngo-kufutshane no-ngaphakathi ngokubeka abafundi ngokwahlukeneyo ngokuthi:</p> <ul style="list-style-type: none"> - UCraig ume ecaleni kukaSoso. - UMelinda umi phakathi kukaCraig noSoso. <p>Umsebenzi unokwenziwa kwakhona nabanye abafundi.</p> <p>Utits'halo unika abafundi iibhloko zokwakha ezimibala yahlukeneyo aze abanike imiyalelo:</p> <ul style="list-style-type: none"> - Babeka ibhloko ebomvu kufutshane nebhloko etyheli. - Babeka ibhloko ebhlowu phakathi kwebomvu nebhloko etyheli. <p>Into ephathekayo usebenzisa izinto ezi-3:</p> <p>Ukusebenzisa iibhinqheli kwimibala eyahlukeneyo (ebomvu, ebhlowu, etyheli, eluhlaza), nika abafundi umyalelo:</p> <ul style="list-style-type: none"> - Mababeke iibhinqheli ebhlowu kufutshane nebhinqheli etyheli. - Mababeke iibhinqheli ebomvu phakathi kwebhinqheli etyheli nebhlowu. <p>Lo msebenzi unokudityaniswa neZakhono zoBomi.</p>	<p>Ixesha elithelekelelwayo</p> <p>Usuku olu-1.</p> <p>Ibhloko ezimibala-bala.</p> <p>Ibhinqheli ezimibala-bala.</p>

Iveki ye- 9	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitsi hala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa
<p>3.2 Izinto ezinokwakheka kuka 3-D</p>	<p>• Cwangcisa nokuba yeyiphi ingqokelela yezinto ezimbini ozinikiweyo ukusukela kweyona incinane ukuya kweyona inkulu.</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Nika abafundi udongwe uze ubayalele benze iibhola ngodongwe.</p> <ul style="list-style-type: none"> - Kumaqela abo babeka iibhola zabo zodongwe ukusukela kweyona incinane ukuya kweyona inkulu kakhulu. <p>Into ephathekayo usebenzisa izinto ezinokwakheka kuka 3-D:</p> <ul style="list-style-type: none"> - Ilungu leqela ngalinye kufuneka lifumane into eklasini. - Bayalele abafundi bacwangcise izinto ngokobuncinane ukuya kwenkulu ngokwamaqela abo ohlukeneyo. <p>Ufithshala unika iqela ngalinye iidayrektri zeefowuni ezindala.</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Mabakrazule iphepha kwidayrektri baze balishwabanise iphepha libe yibhola kumaqela abo. - Abafundi mabathelekise ukuba yeyiphi na ibhola enkulu kakhulu kwaye iyeyiphi encinane kakhulu. <p>Izinto ezimilo ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Nika abafundi iphepha elinemifanekiso yezinto ezinkulu nezincinane. - Abafundi banokufakela imibala kwizinto ezinkulu barhanggele izinto ezincinane. 	<p>Udongwe lokudlala.</p> <p>Naziphi izinto eziseklasini.</p> <p>Idayrektri yefowni.</p> <p>Iphepha elingu-A4 elinemifanekiso.</p>



Iveki ye- 9	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutits'halo (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Ixesha elithelekelelwayo
<p>4.2 Ubude</p>	<p>Izixhobo ezinokusetyenziswa</p>  <ul style="list-style-type: none"> • Thelekisa uze ucwangcise izinto ngokuziphathekayo usebenzisa isigama esifanelekileyo ukuchaza ubude. <ul style="list-style-type: none"> - Ende / emfutshane kakhulu - Eyona inde / eyona imfutshane <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <ul style="list-style-type: none"> - Utitshala ubiza abafundi aba-4 aze abuze ikhosi ukuba imncedise ukucwangcisa abafundi ukusukela koyona mde ukuya koyona mfutshane. - Bayalele abafundi bazicwangcise ngokwabo kumaqela abo ukusukela koyona mde ukuya koyona mfundi mfutshane. - Umfundi omnye woyame eludongeni ngelixa elinye ilungu leqela lithatha umlinganiselo wobude esebenzisa izandla zabo. 	<p>Usuku olu-1.</p>
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Utitshala ubeka iindidi zezinto kwithebyibhile nganye yeqela njengeerula, iipensile, iikhrayoni, iirabha, njalo njalo.</p> <ul style="list-style-type: none"> - Hlela zonke izinto ezinde kunye nazo zonke ezimfutshane kunye. - Abafundi mabahlele izinto ukusuka kweyona inde ukuya kweyona imfutshane <p>Itshati yobude.</p> <ul style="list-style-type: none"> - Utitshala unetshati yobude exhonywe eludongweni ukuze akwazi ukubonisa ubude bomntwana ngamnye. - Sebenzisa amakhadi aneesimboli zabafundi ukubonisa ubude bomfundi ngamnye kwitshati yobude. - Utitshala kunye nabafundi bafikelelela kwisigqibo sokuba uSipho uzizandla ezintandathu ubude aze uAbby abe zizandla ezintlanu kuphela kuba mfutshane. 	<p>lirula, iikhrayoni, iipensile, irabha, njalo njalo.</p>  <p>USipho unobude obuzizandla ezi-6.</p> <p>U-Abby unobude obuzizandla ezi-5.</p>

IVEKI YE-10	Sebenzisa iveki 10 ukuqwalasela ubuthathaka kunye / okanye nezithintelo ekufundeni.	Imilinganiselo yokuHlola
Inkalo yomxholo	Isihloko	
Amanani, ii-opareyshini noLwalamano.	<p>1.1</p> <p>Bala izinto</p>	<p>Ukuqikelela nokubala ngokucengeleza ukuya kutsho kwisi-5 (lingoma nezingqisho zamanani eziqukwe ukuphuhlisa amanani).</p> <p>Nakana amanani kwimeko oqhelekileyo, umzekelo, ubudala, irejista.</p> <p>Qonda amanani ahambelanayo (itshati ngexesha lokutya).</p> <p>Khetha imifanekiso yamanani kunye namakhadi anamachokoza abandakanya inani unye</p> <p>Yazi isimboli yenani u-1.</p> <p>Nakana igama lenani unye.</p> <p>Sebenzisa izixhobo eziphathekayo.</p>
Iipateni nee-fankshini ne-Ajibra	<p>1.6</p> <p>Ubuchule/iindlela zokusombulula iingxaki</p> <p>2.1</p> <p>Iipateni zejiyometri</p>	<p>Cacisa indlela ocinga ngayo ngamagama kunye nemizobo okanye izinto eziphathekayo.</p> <p>Chonga iipateni kwizinto ezisingqongileyo.</p> <p>Kopa, yandisa, yenza iipateni zakho.</p>
Isithuba nemilo (Ijiyometri).	<p>3.1.Indawo-bume,ukufumana indawo nembonakalo</p> <p>3.2 Izinto ezinokwakheka kuka 3-D ne 3.3 iimilo ezinokwakheka kuka 2-D</p>	<p>Yazi: ngaphambili kwe/nasemva kwe</p> <p>Yazi: phezulu kwe, ngaphantsi kwe</p> <p>Yazi: ngaphakathi, ngaphandle</p> <p>Yazi: phezulu, phantsi</p> <p>Qonda iingqiqo: ngaphambili, ngasemva</p> <p>Nakana, khetha, uxele iibhola.</p> <p>Nakana, khetha, uxele iibhola iibhokisi.</p> <p>Nakana, khetha, uxele isimboli yakhe, isimboli yogxa wakhe negama leklasi.</p> <p>Yakha iphazili ezi-6.</p> <p>Ukubonisa isakhono sokukwazi ukwahlula phakathi kwezinto “ezisemva” “neziphambili”.</p> <p>Chonga unakane isangqa.</p> <p>Chonga unakane unxantathu.</p> <p>Chonga unakane isikwere.</p> <p>Thelekisa ukuba yeyiphi ingqokelela enikiweyo yezinto ezimbini ezinkudlwana, ezincinanana, ezinkulu kakhulu nezincinane kakhulu.</p> <p>Hlela izinto:</p> <p>Ubungakanani – inkulu nencinci.</p> <p>Umbala – imibala engundoqo (obomvu, otyheli, obhlowu).</p> <p>Imilo – isangqa, unxantathu nesikwere.</p> <p>Izinto eziqengqelekayo.</p> <p>Izinto ezitshebelezayo.</p>


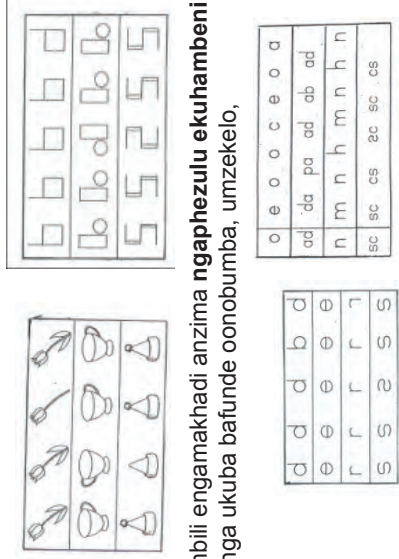
Inkalo yomxholo	Isihloko	Imilinganiselo yokuHlola
Isithuba nemilo (Ijiyometri).	3.4 Ulingano-macala	Qaphela umgca wesimetri kuye.
Umlinganiselo.	4.1 Ixesha	Ukusebenzisa amagama afana nala: imini, ubusuku, ukukhanya nobumnyama, kusasa, emva kwemini, ngokuhlwa ukuchaza ixesha losuku. Cwangcisa iziganeko eziphindelelayo ebomini bakhe bemihla ngemihla (inkqubo yemihla ngemihla). Bonisa nokuqonda iintsuku zeveki, amaxesha onyaka nemo-zulu. Yazi usuku lwakho lokuzalwa.
	4.2 Ubude	Yahlula phakathi kobude, ubudana, ubude kakhulu, futshane, futshanana, futshane kakhulu (itshati yobude).
Ukusebenza ngolwazi oluqokelelweyo.	5.1. Qokelela uhlele izinto 5.2 . Bonisa ingqokelela yezinto ezihleliweyo 5.3. Xoxa uze unike ingxelo ngengqokelela yezinto ezihleliweyo	Akwazi ukuqokelela, ukuhlela, ukuzoba, ukufunda nokuhlalutya izinto ngokophawu olunye.

Iveki ye- 11	Ixesha lokufundisa elicetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>1.1</p> <p>Bala izinto</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Fundisa intsingiselo yenani elingu-2. <p>Ngomlomo: Ukubala izinto zemihla ngemihla ukuya kutsho kwi -2. Ukubala ukuya phambili nasemva ukuya kutsho kwi -2. Ukubala ngokucengeleza ku -1 ukuya kwi- 7.</p> <p>Bethelela “ubuninzi” “nombalwa”.</p> <p>Qhwaba izandla kaninzi..... YIMA.</p> <p>Qhwaba izandla amatyeli amatutshane. Utitshala uqhwaba amaxesha ama- 2.</p>	<p>Imifanekiso emibini yeentaka yengoma yokubala -</p> <p>“Iintaka ezimbini.....”</p>	<p>Usuku olu-1.</p>
	<p>Ukufunda usebenzisa intshukumo yomzimba:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Biza abafundi aba- 2 ngaphambili. Babale. - Bala izitulo ezi- 2, iitafle, njalo njalo. - Ukwalatha izibini zamalungu omzimba njengamehlo, iindlebe, izandla, iinyawo, amadolo, amagxa, njalo njalo. - Sebenzisa umzimba, umzekelo, baqhwaba izandla kabini, bashukumisa iintloko kabini, ukunyathela emgangathweni kabini okanye batsibe kabini, njalo njalo. - Phakamisa iminwe emi- 2, izandla ezi- 2, iinyawo ezi-2. 	<p>Imizimba yabafundi.</p>	

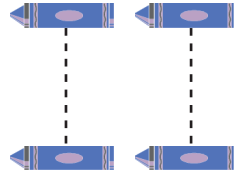

Ixesha lokufundisa elicetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)			
Iveki ye- 11	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>Isihloko</p> <p>1.1</p> <p>Bala izinto</p>	<p>Sebenzisa izinto ezinokwakheka kuka 3-D:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Ukwalatha isibini sezinto ezifanayo eklasini, umzekelo, izihlangu ezibini, iikhrayoni, njalo njalo. - Ukuphuhlisa ulwazi ngolondolozo lwamanani ngokuyalela abafundi bapakishe izinto zokubala ezimbini okanye naziphi izinto ngeendlela ezahlukeneyo, umzekelo, <div style="text-align: center;"> </div> <p>Xa ubala, inani lezinto alichatshazelwa bubungakanani, okanye indawo elimi kuyo, okanye nokuba zezodidi olufanayo. Umzekelo:</p> <ul style="list-style-type: none"> - Ukucwangcisa amaqhoshha ama- 2, iipensile ezi- 2, iihupu ezi- 2, abafundi aba- 2, njalo njalo. - Zibale ngendlela eyahlukileyo, umzekelo, zibale uzisakaze, ziqumbanise, zibe semgceni. 	<p>Izinto zokubala ezi- 2 okanye izinto ezi- 2 zomfundi ngamnye.</p>	

Iveki ye- 11	Ixesha lokufundisa elicetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelekelelwayo
<p>1.3</p> <p>Iisimboli zamanani namagama amanani</p>	<p>Ukwazi ngesimboli yenani nokunakana igama lenani elibandakanya inani elingu- 2.</p> <p>Sebenzisa iimilo enokwakheka kuka 2-D.</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Ukutshatisa amakhadi emifanekiso anemifanekiso emi-2 kuwo namakhadi anamachokoza amabini kuwo. - Bonisa oonotsheluzo nomfanekiso wenani lezinto ezikhethiweyo , umzekelo, ipere yezihlangu, iikhrayoni ezimbini, njalo njalo. - Yalela abafundi bakhangele inani elifanayo lezinto eklasini. - Ukuchonga oonotsheluzo abanamanani emifanekiso awohlukileyo. - Ukuchonga oonotsheluzo abanesimboli yenani elingu- 2. - Ukunakana oonotsheluzo abanegama lenani - Ukunxibelelanisa isimboli yeanani elingu-2 kunye nenani lezinto nenani lamachokoza. - Ukunxibelelanisa igama lenani kunye nesimboli yenani elingu- 2 inani lezinto kunye nenani lamachokoza. - Dibanisa unotsheluzo onenani elingu -1 uze uyalele abafundi bachonge amanani u- 1 no- 2. - Yenza iphezili zamanani uze uyalele abafundi bazitshatise, umzekelo, 	<p>Beka ngokwamanani oonotsheluzo bamakhadi ngezinto ezimbini.</p> <p>Izinto eklasini nakummandla osingqongileyo.</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px;"> <p>Ifoto yezinto e-2</p>  </div> <p>Unotsheluzo onemifanekiso emibini, amachokoza, isimboli yenani negama lenani.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px;"> <p>Ifoto yezinto ezi- 2</p>  </div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px;"> <p>2</p> </div> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin: 10px;"> <p>isibini</p> </div> </div>	<p>Usuku olu-1.</p>



Iveki ye- 11	Ixesha lokufundisa elicetyiswa ukuba lisetenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelekelelwayo
<p>3.2 Izinto ezinokwakheka kuka 3-D kunye</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Chaza, hlela uze uthlekelise izinto ezinokwakheka kuka 3-D no2-D ngokokufana nokwahluka kwazo <p>Izinto ezifanayo nezahlukeneyo. Ukufunda usebenzisa intshukumo yomzimba:</p> <ul style="list-style-type: none"> - Khetha amantombazana amabini usebenzisa isingqisho sokubala. - Abanye abafundi balatha indlela afana ngayo amantombazana amabini? - Khetha inkwenkwe nentombazana usebenzisa isingqisho sokubala. - Abanye abafundi balatha indlela intombazana nenkwenkwe eyahluke ngayo. - Bengababini omnye umfundi “uma” ngendlela ethile aze omnye akope le ndlela “eme” ngayo, umzekelo, - omnye umfundi uma ubeka izandla entloko yakhe esinye emlenzeni. Omnye ukopa “indawo yokuma.” - Ukuhlela abafundi ngokwesini, abo banezihlangu, nabo baneembadada, kunye nabo bahamba ngeenyawo. - Biza abafundi abalandelayo beze ngaphambili. <p>Amantombazana namakhwenkwe anebhulukhwe, intombazana enelokhwe.</p> <ul style="list-style-type: none"> o Bonke abantwana abanxibe izihlangu, omnye akanxiBanga zihlangu. <p>- Buza umbuzo othi: “Ngowuphi umfundi ongangqamaniyo? “Ngowuphi umfundi owahlukileyo?”</p>		<p>Usuku olu-1.</p>

Iveki ye- 11	Ixesha lokufundisa elicetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>3.2 Izinto ezinokwakheka kuka 3-D kunye</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Chaza ,hlela uze uthlekise izinto ezinokwakheka kuka 3-D kunye neemilo ezinokwakheka kuka 2-D ngokwendlela ezifana ngayo nangendlela ezohlule ngayo - Abafundi ababini babhampisa iibhola: ibhola enkulu nebhola encinane. - Abanye abafundi balatha iindlela iibhola ezifana ngayo nezahlule ngayo. - Omnye umfundi uqengqa i-orenji, omnye uqengqa ibhola. - Abanye abafundi balatha iindlela ibhola ne-orenji ezifana ngayo nezahlule ngayo. - Abafundi baqaphela izihlangu zamakhwenkwe neembadada zamantombazana. - Abanye abafundi balatha iindlela izihlangu ezifana ngayo nezahlule ngayo. - Abafundi bakhangela izinto ezifanayo eklasini. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Ukunika imidlalo yamakhadi yokutshatisa ukukhuthaza okufanayo nokwahlukileyo, umzekelo, 	<p>Yenza imidlalo yamakhadi okutshatisa njengoko kuxeliwe kumzekelo ongasezantsi.</p> 	<p>Usuku olu-1.</p>
<p>3.3 Nezinto ezinokwakheka kuka 2-D</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> - Inkqubela-phambili engamakhadi anzima ngaphezulu ekuhambeni konyaka. Abafundi akunyanzelekanga ukuba bafunde oonobumba, umzekelo, 		<p>Ukutshatisa imidlalo ngamakhadi.</p>

Iveki ye- 11	Ixesha lokufundisa elicetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelekelelwayo
<p>1.4 Chaza, thelekisa uze ucwangcise amanani</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Ukucwangcisa nokuthelekisa iingqokela yezinto esebenzisa “iyalingana ne” okanye “iyafana”. <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <p>Yalela abafundi:</p> <ul style="list-style-type: none"> - Baphuhlisa amagama:efanayo neyahlukileyo. - Ukuthelekisa iminwe yabo neenzwane zabo. Nangona inenani elifanayo ikhangeleka yohlukile. - Ukuthelekisa iminwe, iinzwane namehlo. Zibonakala zohlukile kodw Sinenani elifanayo leminwe neenzwane, umzekelo, i- 10 kodwa sinamehlo amabini kuphela. - Ukuthelekisa iindlebe, iingalo, imilenze neenyawo. Zibonakala zohlukile kodwa zinenani elifanayo, oko kukuthi sinezibini zezi zinto. - Ufithala uzoba izangqa ezibini phantsi okanye wenza izangqa ezibini ngomsonto. Yalela abafundi bazohlule ukwenzela ukuba inani labafundi ilingane kwisangqa ngasinye. Bala inani labafundi. Khomba amaqela alinganayo kwafanayo. 		<p>Usuku olu-1.</p>

Ivesha lokufundisa elicetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)	Izixhobo ezinokusetyenziswa	Ixesha elithelekelelwayo
Iveki ye- 11	Amanqaku angangcaciso	Usuku olu-1.
Isihloko	1.4 Chaza, thelekisa uze ucwangcise amanani	Ibhloko.
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <ul style="list-style-type: none"> - Baphuhlisa amagama okufanayo nokwahlukileyo. - Beka iseti yeesimboli zomfundi phakathi kwikhaphethi. - Nika umfundi ngamnye ikhadi lesimboli. Abafundi bazama ukutshatisa iisimboli zabo nefanayo ekhaphethini. - Beka iqela lezinto etafileni uze uzohlule zibe ngamaqela alinganayo (enye yeyakho, enye yeyam). <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. Beka izinto ezimbini zodidi olufanayo, umzekelo, iikhrayoni, emqolweni wetafile. Buza umfundi omnye ukuba atshatise iikhrayoni nganye katitshala neyakhe. (Umfundi kufuneka athathe iikhrayoni ezimbini zokutshatisa inani leekhrayoni zikatitshala. "Ngoku umntu ngamnye unenani elinye / elifanayo leekhrayoni.") 2. Phinda lo msebenzi mnye njengasentla ku- 4 kunye nezinto ezi- 6 zabafundi zokuqonda ulwazi ngamagama athi "okufanayo / okulinganayo." 3. Utitshala ubeka iibhloko ezi- 2 kumqolo wetafile. Unika ngamnye abafundi ababini ibhloko. Yalela utitshala ukuba atshatise ibhloko nganye kwiibhloko zakhe. (Abafundi ngabanye kufuneka beze nenye ibhloko yokutshatisa neebhloko ezimbini zikatitshala). "Ngoku umntu ngamnye uneebhloko ezi- 2. Sinenani elifanayo neebhloko." <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px dashed black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px dashed black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> </div> <p style="text-align: center; font-size: small; margin-top: 5px;">Ibhloko zikatitshala</p>	
	<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Yalela abafundi bathelekise umfanekiso noonotsheluzi abanamachaphaza. Mabachonge amakhadi afanayo. 	
	<ul style="list-style-type: none"> - Banike umdlalo wokumetshisa amakhadi ngexesha lokudlala ngaphakathi apho abafundi banokwahlula phakathi kokufanayo nokwahlukileyo. 	

Iveki ye- 11	Ixesha lokufundisa elicetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Ixesha elithelelelwayo
<p>1.4 Chaza, thelekisa, ucwangcise amanani</p>	<p>• Ukucwangcisa nokuthelekisa iingqokelela zezinto usebenzisa “ngaphezulu kwe ”. Ngomlomo: Ukubala izinto zemihla ngemihla ukuya kutsho ku- 2. Bethelela “u-ninzi” “no -mbalwa”. Qhwaba izandla zakho kanininzi.....YIMA Qhwaba izandla amatyeli ambalwa. Utitshala uqhwaba amaxesha ukuya kuma kuma- 2. Ukufunda usebenzisa intshukumo yomzimba: Umfundi uyazixela iingqokelela ezinikiweyo ezimbini zezinto: “ngaphezulu” Yalela abafundi: - Bala amehlo abo neminwe yabo. Buza umbuzo: “Zeziphi ezininzi abanazo?” - Bonisa iminwe emibini kwesinye isandla nomnwe omnye kwesinye isandla. “Sesiphi isandla esinezingaphezulu?” - Khethe abafundi abathathu usebenzisa isingqisho sokubala xa usenza oko. Zahlula ngokwamaqela esi- 2 nesi- 1.</p> <div style="text-align: center;">  </div> <p>- Bala inani labafundi kwiqela ngalinye. Thelekisa amaqela amabini uze ubuze imibuzo enje ngale: “Leliphi iqela elinabafundi abaninzi?”. “Leliphi iqela elinezingaphezu kwesinye?”</p>	<p>Usuku olu-1.</p>


Ixesha lokufundisa elicetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama-± 30 ngosuku (imisebenzi yeMathematika emi-± 5 ngeveki)		
Iveki ye- 11	Amanqaku angangcaciso	Ixesha elithelelelwayo
<p>Isihloko</p> <p>1.4</p> <p>Chaza, thelekisa, ucwangcise amanani</p>	<p>Amanqaku angangcaciso</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Beka izibini ezi- 2 zezikere, izinto zokubala ezi- 3 neekhrayoni ezi- 4 kwitheyibhile. Bala izinto zeqela ngalinye.  <ul style="list-style-type: none"> - Buza umbuzo othi: “Ngawaphi amaqela anezinto ezininzi. Leliphi iqela elinezinto ezininzi”. “Leliphi iqela elinezikere ezininzi?” “Leliphi iqela elinezingaphezu kwezintathu?” - Beka iindidi ezahlukeneyo zezinto eziphathekayo (amakhohlombe, izitya, iziciko, njalo-njalo). Zihlele ngokwamaqela (zonke iziciko kunye), ubala inani lazo kwiqela ngalinye uze ubonise ukuba leliphi na iqela elingaphezulu, elingaphantsi, elilinganayo. Banike ithuba lokusebenza ngezinto zokubala zabo. Qala ngamanani amancinane. - Unxulumaniso: Izikhongozeli mazinikwe xa kudlalwa ngamanzi nesanti ukunika amathuba okulingisa ngeengqiqo ezinjengo-ngaphezulu, ngaphantsi no-lingana. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso.</p> <ul style="list-style-type: none"> - Yalela abafundi bathelekise umfanekiso noonotsheluzi abanamachaphaza. Khetha amakhadi angaphezu kwenani elinikiweyo ngutitshala, umzekelo, - Utitshala uthi: Khangela ikhadi elinemifanekiso yamachaphaza angaphezu kwesi- 2? - Ukutshatisa amakhadi anenani elifanayo lezinto izixhobo zokubala. (ipakethi yesixhobo sokubala / ikhawunta yechokoza ngalinye okanye umfanekiso ngamnye). 	<p>Izixhobo ezinokusetyenziswa</p> <p>Naziphi izinto eziseklasini.</p> <p>Umfanekiso noonotsheluzi abanamachaphaza.</p> <p>Ikhawunta / izixhobo zokubala.</p>

Iveki ye -12	Ixesha lokufundisa elicetyiswayo: Iplani ekhokelwa ngutitshala enemisebenzi yeklasu eyimizuzu engama ±30 ngosuku (±5 ezemisebenzi ye mathematika ngeveki)		
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>1.1</p> <p>Bala izinto</p>	<p>• Nakana uze uchonge isimboli yenani kunye negama lenani elibandakanya u- 2</p> <p>Ngomlomo: Bala yonke imihla izinto ukuya kwi- 2</p> <p>Bala ubhekisa phambili nangasemva uye kwi- 2</p> <p>Ukubala ngokungenantsingiselo u- 1 ukuya kwi- 7</p> <p>Bethelela ingqiqo ka “ninzi no mbalwa”</p> <p>Qhwaba kaninzi YIMA</p> <p>Qhwaba izandla zakho amaxesha ambalwa.Utitshala uqhweba ukuya kwi- 2</p>	<p>lingoma zamanani neezicengelezo</p>	<p>Usuku olu-1.</p>
	<p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Vumela abafundi ba:</p> <ul style="list-style-type: none"> - Bhampise ibhola kanye ,ngamanye amagama ixesha eli-1 - Bhampise ibhola kabini,ngamanye amagama amaxesha ama- 2 emhlabeni baze abafundi bahambe phezu kwenani elingu- 2 - Zobe isimboli engu- 2 esantini,emoyeni ,ekhaphethini njl-njl - Benze inani elungu- 2 - Khangele abathlobo bakho aba- 2 abanxibe izihlangu 	<p>Ibhola</p> <p>Intlama yokudlala</p>	
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi mabenze oku:</p> <ul style="list-style-type: none"> - Thatha izinto zokubala - Thatha izinto zokubala ezimbini 	<p>Izinto zokubala</p>	

Ixesha lokufundisa elicetyiswayo: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama ±30 ngosuku (±5 ezemisebenzi ye mathematika ngeveki)			
ISIHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>1.1</p> <p>Bala izinto</p>	<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Abafundi mabenze oku:</p> <ul style="list-style-type: none"> - Chonga oonotsheluzi abanemifanekiso uze ubadibanise nenani lezinto . - Chonga oonotsheluzi abaphawulwe ngamachokoza amabini baze bawadibanise nenani elilingana nezinto ezo. - Chonga isimboli yenani nonotsheluzi onegama lenani uze uyidibanise nenani elilingana nezinto ezo. - Chonga isimboli yenani elingu- 2 emfanekisweni oyinikwe ngutitshala. - Khangele apha egumbini utsho ukuba ulibona phi inani elingu-2. - Hlula iklasi ibe ngamaqela amabini.Nika ithuba lokudlala ngeedomino ngokwamaqela. 	<p>Oonotsheluzi abanemifanekiso emibini, amachaphaza, iisimboli zamanani negama lenani.</p> <div style="border: 1px solid black; padding: 5px; display: inline-block; margin-bottom: 10px;"> <p>Umfanekiso yezinto ezezi-2</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px;">● ●</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">bini</div> </div> </div> <p>Izinto zokubala</p> <p>Imifanekiso enesimboli yenani eli - 2</p>	<p>Usuku olu-1.</p>

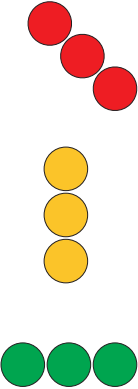

Iveki ye -12	Ixesha lokufundisa elicetyiswayo: Iplani ekhokelwa ngutitshala enemisebenzi yeklasu eyimizuzu engama ±30 ngosuku (±5 ezemisebenzi ye matematika ngeveki)		
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>1.7</p> <p>Ukudibanisa nokuthabatha</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Sombulula ngomlomo uze ucacise izisombululo zezibalo zamazwi (izibalo ezingamabali) ezibandakanya u-2 <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. Utitshala ubiza umfundi omnye ukuba eze ngapahambili. Umfundi uyazibala. Utitshala uphinda abize omnye umfundi aze abuze: Bangaphi abafundi bebonke 1 kunye no 1 → 2. (Utitshala uthi u 1 no 1 benza u 2) 2. Utitshala uthabatha isitulo esi-1. Uthi athathe nesinye aze abuze ukuba zingaphi izitulo zizonke? U -1 no 1 → 2. 3. Utitshala uphakamisa uminwe emi-2 aze athi: "bala iminwe yam". Ukuba ndifihla ubemnye, ndibona iminwe emingaphi? 2 thabatha 1 → 1. 4. Utitshala uphakamisa uminwe emi-2 aze athi: "bala iminwe yam". Ukuba andiyisusi iminwe yam, ubona iminwe emingaphi? 2 thabatha 0 → 2. 5. Kukho umntwana omnye ekhaya. Kufika omnye eze kudlala. Bangaphi bebonke abantwana ngoku? 6. Kukho abantwana ababini etafileni. Umntwana ngamnye ufuna isitulo sakhe. Ingaba sifuna izitulo zibe ngaphi? 	<p>lingoma zamanani nezicengcelezo</p>	<p>Usuku olu-1.</p>
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka okungu 3-D</p> <p>Umz: Izixhobo zokubala</p> <ol style="list-style-type: none"> 1. Ukuba uneqebengwana elinye aze umama akunike elinye, uya kuba namaqebengwana amangaphi? 2. Utitshala unekhawuntari ezimbini, kwisandla sakhe esinye, akanazo kwesinye. Ingaba zingaphi izixhobo zokubala zakhe zizonke? 3. UCay uneebhola ezimbini. Ibhola enye kwezi zimbini iyagengqeleka. Ingaba uCay ushiyeke neebhola ezingaphi? 4. Ukuba uneebhloko ezimbini uze unike umhlobo wakho ibhloko enye, ingaba umntu emnye uza kuba neebhloko ezingaphi? 	<p>Izinto zokubala (izixhobo zokubala ukuba awunawo amaqebengwana)</p> <p>Izinto zokubala (izixhobo zokubala)</p> <p>Ibhola</p> <p>Iibhloko</p>	



Iveki ye -12	Ixesha lokufundisa elicetyiswayo: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama ±30 ngosuku (±5 ezemisebenzi ye mathematika ngeveki)		
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
<p>1.4 Chaza, thelekisa ucwangcise, amanani</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Landelelanisa/cwangcisa uze uthelekise ingqokelela yezinto usebenzisa “ingaphantsi kune” <p>Ngomlomo: Bala izinto yonke imihla uye kuma kwinani eli-2</p> <p>Bethelela ingqiqo engu “ninzi” no “mbalwa”</p> <p>Qhwaba izandla zkho amaxesha ama..... YIMA</p> <p>Qhwaba izandla zakho amaxesha ambalwa. Utitshala uqhweba aye kuma ku -2.</p> <p>Ukufunda usebenzisa intshukumo yomzimba (Dibanisa ubugcisa bokwenza eqongeni nezakhono zobomi-umdaniso)</p> <ul style="list-style-type: none"> - Cula ingoma: “Intloko , amagxa ,sifuba nesinqe”. Cula onke amagama kumjikelo yokuqala” si - Kumjikelo olandelayo phungula igama ambalwa- libe linye. Umz. Intloko ,amagxa ,sifuba ne.....Sifuba ne..... - Cula ingoma ube namagama ambalwa owashiyayo Intloko namagxa ne..... ne.....” - Utitshala uyalatha ngalo lonke ixesha beshiyelela igama ambalwa kude kungashiyeki magama <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Utitshala wenza imitya yamaso.</p> <p>Faka amaso amathathu kumtya wokuqala ,amaso amabini kumtya wesibini, iliso elinye kumtya wesithathu namaso amathathu kumtya wesine.</p> <ul style="list-style-type: none"> - Abafundi mabachonge oku: Let learners identify: - Ngowuphi owona mtya onawona maso ambalwa ? - Ngowuphi umtya wamaso oneliso elinye elingaphezulu komtya onamaso amathathu? 	<p>lingoma zamanani nezicengelezo</p> <p>lingoma: Intloko , amagxa ,sifuba nesinqe“</p> <p>Imitya emine ezinamanani amaso awohlukileyo.</p>	<p>Usuku olu-1.</p>

Ivesha lokufundisa elicetyiswayo: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama ±30 ngosuku (±5 ezemisebenzi ye mathematika ngeveki)	Ixesha elisondeleleyo
Ixesha lokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
<p>Amanqaku angcaciso</p> <p>1.4</p> <p>Chaza, thelekisa ucwangcise, amanani</p> <p>Ukusebenzisa iimilo ezinokwakheka kuka- 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Abafundi mabathelekise umfanekiso nonotsheluzi onamachaphazChonga unotsheluzi onenani elingaphezulu okanye ngaphantsi kulawo anikwe ngutitshala. Umz.Ngowuphi unotsheluzi onezinto ezingaphezu kwesibini? - Ngowuphi unotsheluzi onezinto ezimbalwa kune-4? 	<p>Yenza imifanekiso nonootsheluzi bamachaphaza.</p>
<ul style="list-style-type: none"> • Bethelela ukuthelekiswa kwezinto eziyingqokelela usebenzisa: <ul style="list-style-type: none"> - ngaphezulu kune - ngaphantsi kune (mbalwa) <p>Ukubala ngomlomo: Bala izinto yonke imihla uye kuma kwini elingu-2</p> <p>Cengceleza ngokubala ukusuka ku -1 -7</p> <p>Bethelela u –“ ninzi “no “mbalwa”</p> <p>Qhwaba izandla amaxesha amaninzi..... YIMA</p> <p>Qhwaba izandla amaxesha ambalwa.Utitshala uqhweba aye kwisi-2</p> <p>Utitshala wenza umtya onamaso.Faka amaso amathathu kumtya wokuqala,abe-2 kumtya wesibini</p> <p>Abafundi bachonga:</p> <ul style="list-style-type: none"> - Ngowuphi umtya wamaso onawona maso ambalwa? - Ngowuphi umtya wamaso onawona maso maninzi? - Ngowuphi umtya wamaso onamaso amabini ngaphezulu kunomnye umtya? - Ngowuphi umtya wamaso onamaso amathathu ngaphantsi kunomnye umtya? <p>Nxulumanisa nobugcisa bokubonwayo apho abafundi boluka istro,sika imilo ezinemingxuma phakathi,amagqabi njl-njl</p>	<p>Usuku olu-1</p>
<p>lingoma zamanani nezicengcelezo</p>	<p>Usuku olu-1</p>
<p>Imitya emine ezinamanani amaso awohlukileyo.</p>	<p>Imitya emine ezinamanani amaso awohlukileyo.</p>

Ixesha lokufundisa elicetyiswayo: Iplani ekhokelwa ngutitshala enemisebenzi yeklas eyimizuzu engama ±30 ngosuku (±5 ezemisebenzi ye mathematika ngeveki)			
ISIHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>1.4 Chaza, thelekisa ucwangcise, amanani</p>	<p>Ukusebenzisa imifanekiso/iimilo ezinokwakheka kuka 2-D Beka iqela lezinto etafileni uze uzahlule ngolu hlobo:</p> <ul style="list-style-type: none"> - Amaqela alinganayo (enye yeyakho, enye yeyam) - Amamqela angalinganiyo(thelekisa ubone ukuba leliphi iqela elizinto ezinzi kunelinye/ leliphi iqela elinezinto ezimbalwa/ngawaphi alinganayo) - Ukuba kukho amqela amabini angalinganiyo kufuneka senze ntoni ukuze alingane?) 	<p>Imitya emine ezinamanani amaso awohlukileyo.</p>	<p>Usuku olu-1</p>
<p>3.2 Izinto ezinokwakheka kua 3-D kunye</p> <p>3.3 Nezinto ezinokwakheka kuka 2-D</p>	<ul style="list-style-type: none"> • Chaza, hlela uze uthlekise izinto ezinokwakheka kuka 2-D kunye no 3-D <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Abafundi maba:</p> <ul style="list-style-type: none"> - Hlele iintlobo ngeentlobo zezinto ngokobukhulu. - Hlele uze uthlekise iibhloko zokwakha ngokobukhulu (inkulu, incinic) - Hlele iibhloko ngokwe sakheko esifanayo <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso Hlula abantwana babe ngamaqela amahlanu. Nika iqela ngalinye izinto ezineemilo ezahlukileyo.</p> <ul style="list-style-type: none"> - Abafundi mabahele imilo ngoko <ul style="list-style-type: none"> o Mbala o Imilo (nokuba abafundi abazazi izakheko) o Ubukhulu - Sebenzisa amakhadi anemidlalo abonakalisa umbala, ubukhulu nemilo 	<p>Izinto ezinkulu nezincinci ezahlukileyo apha egumbini lokufunda umz ibhola, unodoli, imoto yokudlala, iibhloko.</p> <p>Iibhloko zokwakha neebhola ezinobukhulu obungalinganiyo</p> <p>Iimilo nokuba zeziphi imilo (logi shapes) ezinemibala eqaqambileyo.</p>	<p>Usuku olu-1</p>

Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE 13	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
ISHILOKO			
1.1			
Bala izinto	<p>Fundisa intsingiselo yenani u – 3</p> <p>Ngomlomo: Bala izinto yonke imihla uye kuma kwinani elisisi-3</p> <p>Bala usiya phambili ubale ubuya umva uye kuma kwisi- 3</p> <p>Bethelela u –“ ninzi “no “mbalwa”</p> <p>Qhwaba izandla amaxesha amaninzi.....YIMA</p> <p>Qhwaba izandla amaxesha ambalwa.Utitshala uqhwaba aye kwisi- 3</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala ubetha igubu okanye udlala umculo.Xa umculo ucimile abafundi bohluwa babengamaqela amathathu. - Buza abantwana ukuba ngubani onamalungu osapho amathathu kuphela. - Abafundi bema emgceeni.Utitshala ubuza ukuba ngubani owesithathu emgceeni? - Yohlula abafundi babe ngamaqela ama ±5 - Abafundi maba: - Krazule amaphepha amathathu kwincwadi esisalathiso seenombolo zomxebe endala. - Shwabanise amaphepha amathathu abe zibhola ezintathu bawaqinise kangangoko. Ukuphucula ubucala sebenzisa esona sandla umntwana asisebenzisa yo.Abantwana banokuhlala phezu kwesandla angasisebenzisi rhoqo. - Vule iibhola uze uzishwabanise kwakhona. - Bale iibhola emveni kokuba uzishwabanise zontathu. - Njengokuba ubala phosa iibhola zontathu ebhaskithini uze uzibeke embindini weqela. <p>Lo msebenzi unokunxulunyaniswa neMithambo kwizifundo Zobomi.</p>	<p>lingoma zamanani nezicengelezo</p> <p>Abafundi ngokwabo</p> <p>Izinto zokubala (izixhobo zokubala)</p> <p>Incwadi yeenombolo zomxebe endala.</p>	<p>Usuku olu-1</p>

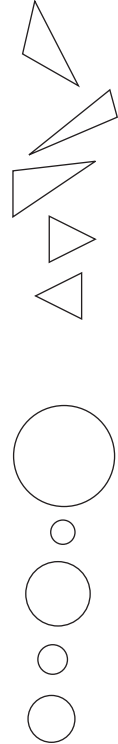
IVEKI YE 13	Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki)			Ixesha elisondeleyo
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo	
1.1 Bala izinto	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Chonge izinto ezi- 3 egumbini lokufunda - Phakamisa iminwe emithathu - Beka izinto ezi- 3 etafileni.Umfundi ngamnye makeze etafileni eze kubala into nganye. Abafundi babamba into nganye lo gama bebala.Phinda phinda nagezinye izinto. - Phuhlisa ulwazi lwamanani ngokuthi ubayeke abafundi bapakishe izixhobo zokubala ezintathu okanye nokuba yintoni ngeendlela ezahlukileyo. Umz. 	<p>Izinto zokubala/izixhobo zokubala okanye izinto</p> 	Usuku olu-1	
	<p>Xa ebala, inani lezinto malingachathazelwa bubukhulu okanye indawo okanye ukufana. Umz.</p> <ul style="list-style-type: none"> - Cwangcisa amaqhosha ama-3, iipensile ezi-3, izangqa ezi-3, abafundi aba-3 njl-njl. - Bala ezi zinto ngeendlela ezininzi umz. Zibale zither saa, ziqokelelene, zisemgceni okanye zibekwe enye phezu kwenye. 	<p>Oonotsheluzi abanemifanekiso</p> <p>Oonotsheluzi abanamachaphaza</p> <p>Izixhobo zokubala</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Umfanekiso wezinto ezintathu</p>  </div>		
	<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye umfanekiso</p> <ul style="list-style-type: none"> - Bonisa umfanekiso wembiza yesiXhosa enemilenze emithathu. - Bala imilenze. - Abantwana mabacinge ngayo yonke into enemilenze emithathu. - Bonisa ikhadi elinomfanekiso onezinto ezintathu.Abafundi babala izixhobo zokubala ezihambelana nenani. - Yenza njalo ngoonotsheluzi abanamachokoza. - Abafundi batshatisa oonotsheluzi abanamachaphaza nonotsheluzi onomfanekiso. 			

Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			Ixesha elisondeleyo
IVEKI YE 13	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Usuku olu-1
<p>ISHLOKO</p> <p>1.3</p> <p>lisimboli zamanani namagama amanani</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Zazi iisimboli zamanani uze unakane amagama amanani abandakanya inani elingu- 3 <p>Ngomlomo: Bala izinto yonke imihla uye kuma kwinani elisisi- 3</p> <p>Bala ubhekisa phambili nangasemva uye kuma kwisi- 3</p> <p>Bethelela u –“ ninzi “no “mbalwa”</p> <p>Qhwaba izandla amaxesha amaninzi..... YIMA</p> <p>Qhwaba izandla amaxesha ambalwa.Utitshala uqhwaba aye kwisi- 3</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Nika umfundi ngamnye iityhubhu ezi- 3</p> <ul style="list-style-type: none"> - Utitshala ubonisa abantwana ichaphaza,umfanekiso, isimboli okanye unotsheluzo onamanani u-1 ukuya ku- 3 - Abafundi babhala inani elithile baze bathathe iityhubhu ezilingana nelo nani. <p>Ukusebenzisa iimilo ezinokwakheka kuka- 2 D okanye imifanekiso</p> <p>Abafundi ba:</p> <ul style="list-style-type: none"> - Chonga onotsheluzo onamani emifanekiso awohlukileyo - Chonga unotsheluzo onenani elingu-3 - Tshatisa isimboli yenani elisisi-3 kunye nenani lezinto nenani lamachaphaza. - Tshatisa igama lenani kunye nonotsheluzo onesimboli yenani lamachaphaza. - Nika umfundi ngamnye ikhadi elinamanani u -1 ukuya kutsho kwi -3. Utitshala uphakamisa ichaphaza okanye umfanekiso. Umfundi makaphakamise ikhadi elinenani elihambelana nechaphaza okanye umfanekiso. 	<p>lityhubhu</p> <p>Oonotsheluzo abanamanani ano -1 ukuya kwi- 3</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Umfanekiso onezinto ezint</p>  </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>3</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ntathu</p> </div> </div>	
		<p>Oonotsheluzo abanamanani emifanekiso awohlukileyo.</p> <p>Unotsheluzo onesimboli yenani engu-3</p> <p>Unotsheluzo ophawulwe ngamachaphaza ama-3</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Umfanekiso onezinto ezint</p>  </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>3</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>ntathu</p> </div> </div>	

IVEKI YE 13	Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yekhasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki)		Ixesha elisondeleyo
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	
<p>1.7 Ukudibanisa nokuthabatha</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Sombulula ngomlomo iingxaki ezixeliweyo zokudibanisa nokuthabatha ezinezisombululo ukuya kwi- 3. <p>Ngomlomo: Bala izinto yonke iminla uye kuma kwinani elisisi-3 Bala ubhekisa phambili nangasemva uye kuma kwisi-3</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Imizekelo:</p> <ul style="list-style-type: none"> - Utitshala ubiza abafundi ababini ukuba beze ngaphambili. Abafundi baya babala. Utitshala uphinda abize omnye umfundi aze abuze: Bangaphi abafundi bebonke: 2 kunye no 1 → 3. (Utitshala uthi 2 no 1 benza isi- 3) - Utitshala uthabatha izitulo ezi-3. Akongezi situlo. Zingaphi izitulo ngoku? 3 no 0 @ 3 - Utitshala uthabatha izitulo ezi-3. Uthatha sibe sinye aze abuze ukuba zingaphi izitulo ngoku? 3 no 1 → 2. (2 no 1 bakunika isi -3) - Utitshala ubiza abantwana aba-3 beze ngaphambili. Babale. Uthumela ababini ukuba baye kuhlala phantsi. Bangaphi abafundi abashiyekileyo? 3 thabatha 2 → 1 <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Nika abafundi abathathu izixhobo zokubala. Utitshala ubalisa ibali baze abantwana babeke into yokubala.</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. U-Anelisiwe unee-orenji ezi -2. UPopo umnika i-orenji e-1. Ingaba uAnelisiwe unee-orenji ezi ngaphi ngoku? 2 no 1 → 3 (Utitshala uthi: 2 no 1 ukunika 3). 2. Umthi unesebe elinye. Kukhula amanye amasebe ama-2. Umthi unamasebe amangaphi ngoku? 1 no 2 → 3. <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. Inkawu ineebhanana ezi -3. Itya ibhanana ibe -1. Ingaba ishiyekelwe zibhanana ezingaphi? 3 thabatha 2 → 1. 2. Kukho ii-apile ezi-2 emthini. I-apile e-1 iyawa. Kushiyeke ii-apile ezingaphi emthini? 2 thabatha 1 → 1. 	<p>Iingoma zamanani nezicengcelezo</p> <p>Izitulo</p> <p>Izinto zokubala ezi-3 zomfundi ngamnye</p>	<p>Usuku olu- 1</p>

Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE 13	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
ISHILOKO 2.1 Iipateni zejijometri	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Yila iipateni zakhe esebenzisa izinto ezimbini <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Abafundi benza isangqa. Bacula besebenzisa amagama ngokukhawulezayo</p> <p>Umzekelo:</p> <p>Imvula, imvula</p> <p>Chapha, chapha</p> <p>Imanz' ilokhwe yam</p> <p>Imanz' lokhwe yam</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi ba:</p> <ul style="list-style-type: none"> - Qokelela apha egumbini lokufunda izinto ezi-3 ezifanayo. Umz iikhrayoni ezi-3 - Qokelela ezinye izinto ezi-3 ezifanayo umz. ibhloko ezi- 3 - Abafundi bayila iipateni zabo besebenzisa izinto ezimbini.umz - Ikhayoni enye, ibhloko enye, iikhrayoni enye..... - Iikhrayoni ezimbini, ibhloko enye, iikhrayoni ezimbini, ibhloko enye..... - Vumela abafundi ukuba bayile iipateni ngeendlela ezahlukileyo. - Batshintshiselana nabahlobo babo ngezinto. Makuphinda phindwe oku. 	<p>Ikhayoni</p> <p>Into yokuncamathisela</p> <p>Ingqokelela yezinto nokuba ziintoni</p>	Usuku olu-1

IVEKI YE 13	Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki)		
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>3.3 Izinto ezinokwakheka kuka 2-D</p>	<p>Nakana, chonga uze uxele iimilo ezinokwakheka kuka- 2-D ezilapha egumbini lokufunda eziquka imifanekiso.</p> <ul style="list-style-type: none"> - unxantathu • Bethelela ulwazi olufundwe kwiveki yesine ukuze anakane, achonge, axele unxantathu. <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Zoba, okanye usebenzise intambo ukuyila umphandle weemilo ezinkulu zikanxantathu. Abafundi maba:</p> <ul style="list-style-type: none"> - Hamba kumacala emilo onke aze aqwalasele iimpawu zika nxantathu. Njengokuba behamba abafundi mabathi: Ndihamba kunxantathu. Nye, mbini, ntathu amacala. Okanye nye, mbini, ntathu iikona (ii-engile) - Utitshala uxelela abafundi ukuba unxathathu uneekona ezintathu namacala ama-3. - Zoba unxantathu emoyeni okanye esantini. - Bumba unxantathu ngomdongwe. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Nakane baze bachonge izinto egumbini lokufunda ezinemilo kanxantathu. - Nakana baze bachonge izinto endalweni ezinemilo kanxantathu. - Faka iintlobo ngeentlobo zezangqa noonxantathu abanobukhulu obahlukenenyo kwibhegi. Chonga unxantathu phakathi kwezo milo. 	<p>Umdongwe okanye intlama yokudlala</p> <p>Izinto ezinemilo kanxantathu egumbini lokufunda naphandle.</p> <p>Yenza amakhadi abenezangqa, oonxantathu nezikwere ezahlukileyo ezi-5.</p>	<p>Usuku olu-1</p>



Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE 13	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
ISHILOKO			Usuku olu-1
3.3 Izinto ezinokwakheka kuka 2-D	<p>Hlela izinto ezinokwakheka kuka 3-D neemilo ezinokwakheka kuka 2-D Hlela izinto ngokwemilo nombala.</p> <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso Abafundi maba:</p> <ul style="list-style-type: none"> - Chonga unxantathu emifanekisweni. - Zoba unxantathu ephepheni. - Kopa unxantathu kwikhadi olinikiweyo - Rhangqa izangqa ezikwiphepha lomsebenzi olinikiweyo - Yenza imifanekiso usebenzisa unxantathu ngexesha lokuzoba - Dlala umdlalo wamakhadi ophucula uze ubethelele iimilo. 	<p>Imifanekiso apho unxantathu anokuchongwa khona.</p> <p>Amakhadi anemidlalo ephuhlisa ukuqatshelwa kweemilo ezifana nezikwere efana nale "Yintoni ekwisikwere".</p> <p>Iimilo zelogi (logi shapes)</p>	

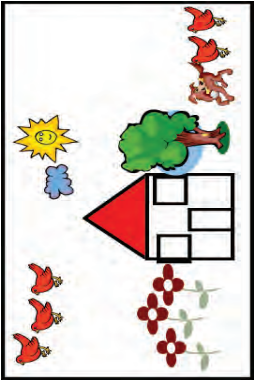
Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE- 14	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>ISHLOKO</p> <p>1.1 Bala izinto</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Bethelela ulwazi alufumeneyo lwenani u-3 <p>Ngomlomo: Bala izinto yonke imihla uye kuma kwinani elisisi-3</p> <p>Bala usiya phambili, ubale ubuya umva uye kuma kwisi-3</p> <p>Bala ngentloko ngokungenantsingiselo ukuqala ku-1-7</p> <p>Bethelela u –“ ninzi “no “mbalwa”</p> <p>Qhwaba izandla amaxesha amaninzi.....YIMA</p> <p>Qhwaba izandla amaxesha ambalwa.Utitshala uqhwaba aye kwisi-3</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakhaka kuka 3-D</p> <p>Abafundi ba:</p> <ul style="list-style-type: none"> - Funa izinto ezibomvu zibe -3 egumbini lokufunda. - Yenza inani elingu-3 besebenzisa umdongwe. - Bumba iibhola ezi-3 ezinkulu ngomdongwe. - Bumba ibhola ezi-3 ezincinci ngomdongwe. - Khangela egumbini lokufunda abafundi aba-3 abanxibe umbala omnye. 	<p>Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe</p> <p>lingoma zamanani nezicengelezo.</p> <p>Izinto ezibomvu. Umdongwe.</p>	<p>Ixesha elisondeleyo</p> <p>Usuku olu-1</p>

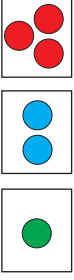
Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE- 14	Amanqaku ngangcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
ISHLOKO 1.7 Ukudibanisa nokuthabatha	<p>Amanqaku ngangcaciso</p> <ul style="list-style-type: none"> • Sombulula ngomlomo uze ucacise isisombululo kwizibalo zamazwi (izibalo ezingamabali) ezinenani elingu-3 <p>Ngomlomo: Bala izinto yonke imihla uye kuma kwinani elisisi-3 Bala usiya phambili ubale ubuya umva uye kuma kwisi-3</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. Utitshala ubiza abafundi aba- 2 ukuba beze kuhlala ekhaphethini. Utitshala ubiza umfundi omnye ukuba aze kuhlala ekhaphethini. Utitshala ubize abantwana aBangaphi ukuba beze kuhlala ekhaphethini. Utitshala uthi: 2 no 1 bakunika u 3. 2. Kukho abantwana abathathu. Umntwana ngamnye ufuna ikhrayoni yakhe. Zingaphi ikhrayoni esizifunayo? 3. Abantwana abathathu bame bonke. Omnye uyaphuma egumbini. Bangaphi abantwana abashiyekileyo? <p>Izinto eziphathekayo ezinokwakheka kuka- 3-D</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. Utitshala ubeka izinto zokubala ezi -3 etafileni. Uthatha izixhobo zokubala ezi-2. Zingaphi izixhobo zokubala ezishiyekileyo etafileni? Utitshala uthi 3 thabatha 1 kushiyeka 2. 2. UPat uneekati ezimbini. Uphila nguBusi ikati e-1. Zingaphi iikati zikaPat zizonke? 1 no 2 →3. Utitshala uthi 1 no 2 zikunika 3. 3. Ukuba ikati enye inomsila omnye, mingaphi imisila yeeekati ezi- 3 iyonke? 1 and 1 and 1 →3 	<p>Abafundi</p> <p>Izixhobo zokubala</p>	<p>Usuku olu-1</p>

Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE- 14	Amanqaku ngangcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
ISHILOKO			
2.1 Iipateni zejijometri	<p>Amanqaku ngangcaciso</p> <p>• Gqibezela ipateni azinikiweyo enezinto ezi- 2 Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Abafundi mabakope ipateni yentshukumo. Umz. Xhuma, xhuma, tsiba, tsiba, xhuma, xhuma, tsiba..... - Abafundi bagqibezela ipateni besebenzisa imizimba yabo umz. e.g. Bama ecaleni komnye baze bema beshintsha izandla zabo bezibeka entloko,izandla emahlezeni,izandla entloko..... <p>Izinto eziphathekayo ezisebenzisa ukwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Abantwana mabakope ipateni yento umz. iliso, iliso(bead), uluthi, uluthi, iliso, iliso, uluthi, uluthi <p>limilo ezinokwakheka kuka 2-D okanye umfanekiso</p> <ul style="list-style-type: none"> - Utitshala unika abantwana imifanekiso yento enye esele isikwe kakuhle eziindidi ezininzi.(Sika imifanekiso ngexesha lemisebenzi yobugcisa bokubonwayo). - Utitshala wenza ipateni baze abafundi bayikope umz.umfanekiso wekofu; iti, iswekile..... - Abafundi mabagqibezele ipateni ngokuzoba: - Intyatyambo, igqabi, intyatyambo..... - Isangqa esi bhlowu, isekile ebomvu, isangqa esi bhlowu..... njl-njl. 	<p>Nokuba yintoni</p> <p>Imifanekiso eneentengiso.</p> <p>Iphepha elingu A4 neekhrayoni</p>	<p>Usuku olu-1</p>

Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye matematika ngeveki			
IVEKI YE- 14	Amanqaku ngangcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>ISHLOKO</p> <p>3.2 Izinto ezinokwakheka kuka 3-D</p>	<p>Amanqaku ngangcaciso</p> <p>• Hlela uze uthlekise izinto ezinokwakheka kuka 3-D neemilo ezinokwakheka kuka2-D ngokweempawu ezithile</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Hlula abantwana babe ngamaqela ama-5.</p> <ul style="list-style-type: none"> - Uritshala uqokelela izinto ezaneleyo ukuze iqela ngalinye libe nakho ukuzihlela ngokweempawu ezimbini. (Zinokuba ninzi kunoku). - Nika iqela lezinto ezineempawu ezimbini ukuze lizihlele. <p>Abantwana mabenze oku:</p> <ul style="list-style-type: none"> - Hlela izinto ezifanayo nezahlukileyo. <p>Ukusebenzisa iimilo ezinokwakheka kuka- 2 D okanye imifanekiso</p> <p>Abantwana mabahlale kula maqela bebekuwo.</p> <ul style="list-style-type: none"> - Thelekisa uze uhlele imifanekiso eyahlukileyo ebiqokelelwe ngutitshala.umz.lindidi ngeendidi zemifanekiso yeelokhwe, ukutya, izithuthi njl-njl. - Abafundi bagqibezela amaphepha okusebenza apho batshatisa khona imifanekiso emibini umz. Intlama yamazinyo nebrashi yamazinyo, ilaphu lokuhlamba ubuso nesepha. 	<p>Izinto ezifana nezi:</p> <p>Iimpahla zokunxiba ezahlukileyo</p> <p>Iintlobo ngeentlobo zeziqhamo</p> <p>Iindidi ngeendidi zezilwanyana zasefama zokudlala</p> <p>Iimilo ezahlukileyo ze- jiyometri</p> <p>Iindidi ngeendidi zeebhloko zokwakha</p> <p>Iindidi ngeendidi zeebhloko zelogi (Logi blocks)</p> <p>Iindidi ngeendidi zezinto ezifana namagqabi,amakhuni,amatye nj-njl</p> <p>Iindidi ngeendidi zamaqhosha.</p> <p>Iindidi ngeendidi zemibala yeziciko zeebhottle.</p> <p>Iindidi ngeendidi zeebhlayoni.</p> <p>Qokelela imifanekiso kwiimagazini neencwadana zolwazi. Sika uze uncamathisele emakhadini.</p>	<p>Usuku olu-1</p>

IVEKI YE- 14	Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye matematika ngeveki)		Ixesha elisondeleyo
ISHLOKO	Amanqaku ngangcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Usuku olu-1
<p>3.1</p> <p>Indawo –bume, ukufumana indawo nembonakalo.</p>	<p>Amanqaku ngangcaciso</p> <ul style="list-style-type: none"> Indawo yezinto ezimbini kanye ezininzi ngokunxulumene nomfundi <ul style="list-style-type: none"> Bethelela u-ngaphezulu/ngaphantsi <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Umfundi ngamnye uhlala esituliweni.</p> <ul style="list-style-type: none"> Abantwana babonisa oku: ngaphezulu, ngaphantsi ngokulandela imiyalelo katishala. umz hlala phezu kwebhokisi, lala phantsi kwebhokisi/kwetafile. Hlala phantsi kwetafile. Zisonge ube mncinci ukuze ube nakho ukungena phantsi kwetafile. Yima ngeenyawo phezu kwesitulo uze uzolule kangangoko unakho. Ngena etafileni yakho uze ujjwule iingalo zakho wenze izangqa ezinkulu/ezincinci. Beka iibhloko entloko uze ukhwele etafileni. Khetha abafundi abahlanu usebenzise isicengelezo samanani Sebenza le miyalelo kumfundi ngamnye: <ul style="list-style-type: none"> Hlala phantsi izandla zakho zibe phantsi kwemilenze yakho. Yima ngeenyawo izandla zakho zibe semahlezeni akho. Yima ngeenyawo izandla zakho zibe ngasemva. Hlala phantsi izandla zakho zibe semagxeni akho. Yima ngeenyawo uphote izandla zakho ngaphambili. <p>Abafundi bama ngaphambili logama elinye iqela lihleli ekhaphethini.</p> <ul style="list-style-type: none"> Wenza ntoni umfundi wokuqala? (<i>Uhleli phantsi</i>) Ziphi izandla zakho? (<i>Izandla zakhe ziphantsi kwemilenze</i>) Phinda nelinye iqela labafundi usebenzisa la magama okwesibini, okwesithathu, okwesine, okokugqibela. Khupha phandle iqela elitsha lize libonise ngokwalo oku -ngaphezulu, ngaphantsi, ngaphezulu kwe- 	<p>Abantwana</p> <p>Ibhokisi</p>  <p>phezu kwe phantsi kwe</p>	

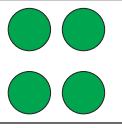
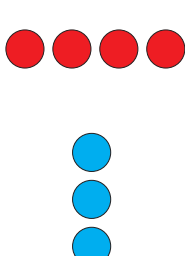
IVEKI YE - 15			
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
1.1 Bala izinto	<p>Bethelela ulwazi alufumeneyo lwamanani u-1,2 no 3</p> <p>Ngomlomo: Bala izinto yonke imihla uye kuma kwinani elisisi-3</p> <p>Bala usiya phambili ubale ubuya umva uye kuma kwisi-3</p> <p>Bala ngentloko gokungenantsingiselo ukuqala ku-1-7</p> <p>Bethelela u –“ mbalwa”</p> <p>Qhwaba izandla amaxesha amaninzi..... YIMA</p> <p>Qhwaba izandla amaxesha ambalwa.Utishala uqhwaba aye kwisi-3</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Khuthaza abantwana ukuba bafumanise oku:</p> <ul style="list-style-type: none"> - Ilungu lomzimba eli-1 elikwaziyo ukushukuma libheke phezulu okanye libheke phantsi, liye emacaleni umz. ulwimi - Amalungu ama-2 asetyenziselwa ukutsiba umz.imilenze 	<p>lingoma zamanani nezicengelezo</p> <p>Imizimba yabafundi.</p> <p>Ukucula balinganise ingoma umz. “ amahotyazana mahlanu emthini, kwabhabha lalinye kwasala amane.....</p> <p>Izicengelezo zamanani</p>	Usuku olu-1
1.2 Ukubala usiya phambili nokubala ubuya umva	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi bakhulisa ingqiqo ngamanani ngoku:-</p> <ul style="list-style-type: none"> - Sebenzisa iibhloko ezi-3 wakhe ithawa - Khangela izinto ezi-3 ezibomvu apha egumbini lokufunda. <p>Ukusebenzisa imilo ezinokwakheka kuka- 2 D okanye umfanekiso</p> <p>Utishala uzoba umfanekiso olula</p> <ul style="list-style-type: none"> - Utitshala ubuza imibuzo engqamene nenani lezinto ezisemfanekisweni. umz. Zingaphi iifestile ozibonayo? njl-njl <p>Sebenzisa amanani u 1, 2 and 3 kwiimeko eziqhelekileyo</p> <p>Ngomlomo: Bala izinto yonke imihla uye kuma kwinani elisisi-3</p> <p>Bala usiya phambili, ubale ubuya umva uye kuma kwisi-3</p> <p>Bethelela u –“ ninzi “no “mbalwa”</p> <p>Qhwaba izandla amaxesha amaninzi..... YIMA</p> <p>Qhwaba izandla amaxesha ambalwa.Utishala uqhwaba aye kwisi-3</p> <ul style="list-style-type: none"> - Khuthaza abafundi ukuba bafunde ngentloko inombolo zakumawabo kwakunye nesitalato ahiala kuso. 	<p>iibhloko</p> <p>Izinto ezibomvu</p>  <p>Ingoma zamanani nezicengelezo</p>	Usuku olu-1

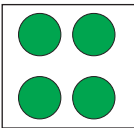
Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE - 15	ISIHLOKO	Amanqaku angcaciso	Ixesha elisondeleleyo
1.2	<p>Ukubala usiya phambili nokubala ubuya umva</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Khangele imifanekiso yamanani angu 1,2, no 3 kwimagazini neflaya baze bayincamathisele ephetheni.(nxulumanisa nobugcisa bokubonwayo) - Tshatisa inani lezinto neenani lamachaphaza kunotsheluzo. - Bonisa ikhadi lamachaphaza.Abantwana baphosa inani elilinganayo neebhibhegi kwibhokisi. - Dlala umdlalo weenyoka neeleli needomino. 	<p>limagazini, iintengiso</p> <p>Oonotsheluzo abanamachaphaza</p>  <p>iibhimbhegi</p> <p>Umdlalo weenyoka neeleli</p> <p>IiDomino</p>	Usuku olu-1
<p>AMANQAKU:</p> <p>Singqongwe ngamanani:</p> <ul style="list-style-type: none"> - Yonke indlu inenani - Sonke sinamanani awahlukileyo kwiinombolo zethu zomnxeba - Sibona amanani ezifestileni zeevenkile - Sibona amanani kwizinto esizithengayo ezivenkileni - Sibona amanani ezimotweni 			
1.4	<p>Chaza,uthelekise uze ucwangcise amanani</p>	<ul style="list-style-type: none"> • Cwangcisa uze uthelekise ingqokelela yezinto usebenzisa u- ngaphezulu kune, ngaphantsi kune, lingana ne ukuya kwinanani elingu-3. <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Biza abafundi beze ngaphambili.Mabenze isangqa</p> <p>Ababini mabeme ngenyawo.</p> <ul style="list-style-type: none"> - Bangaphi abahleli phantsi. Babale. Leliphi inani elingaphezulu/elona lingaphezulu, leliphi elingaphantsi/elona lingaphantsi. - Abafundi abathathu mabeme ngenyawo.Babale.Leliphi elona nani lingaphezulu/lingaphantsi? Biza omnye umfundi eme. Babale. Ingaba abafundi abahleli phantsi Bangaphezulu kunabo bahleli phantsi? - Phinda usebenzisa amanani ukusuka ku- 1ukuya kwisi 3.. - Bala amantombazana.Bala amakhwenkwe.Ingaba amakhwenkwe angaphezulu kunamantombazana? 	Usuku olu-1

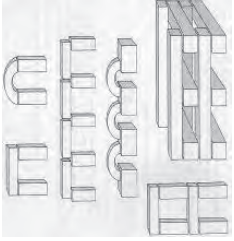
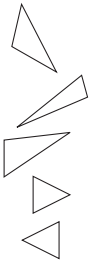

Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki)			
IVEKI YE - 15	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
1.4 Chaza, uthelekise uze ucwangcise amanani	Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Hlula abafundi babe ngamaqela amahlanu. Nika iqela ngalinye isijungqe somtya/ sewulu kunye nezinto ezintlanu (zingangaphezulu/ ngaphantsi). Abafundi benza inesi ngewulu. - Utitshala usebezela iqela ngalinye, eliyalela ukuba lenze iqela lezinto ezi- 3 okanye ezi- 2 okanye e-1 kwiinesi zabo. - Abafundi mabachonge iqela elinezinto ezingaphezulu kwe -1. - Leliphi iqela elinezinto ezingaphantsi kwe-3? - Leliphi iqela elinezinto ezilinganayo?	Umya Izinto ezi- 5 kwiqela ngalinye	Usuku olu-1
2.1 lipatani zejijometri	2.1 Kopa uze ugqibezele ipatani ngokwale mibala: bomvu, bhlowu, tyheli. Ukufunda usebenzisa intshukumo yomzimba - Utitshala ulinganisa ipatani. Uyayiphinda phinda aze agcine isingqisho.umz o Qhwaba, snepa(iminwe), qhwaba, snepa o Nqokra iminwe (snap), qhwaba, Nqokra iminwe (snap), qhwaba, ngqisha o Qhwaba, snepa, snepa, qhwaba, Nqokra iminwe (snap), snepa Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Utitshala unika abafundi izixhobo zokubala/iziciko zeebhotile ezi-3 ezibomvu, ezi-3 ezibhlowu kunye nezi-3 ezityheli. Abafundi maba: - Kope ipatani abayinikiweyo kwiipatani zikatitshala umz.bomvu,bhlowu,tyheli(phinda phinda amaxesha amaninzi ngepateni eyahlukileyo) - Gqibezele ipateni enikiweyo umz bhlowu,tyheli,bomvu..... (phinda phinda amaxesha ngepateni eyahlukileyo) - Abafundi mabahtlele izixhobo zokubala ngokwemibala emithathu eyahlukileyo.	Umfundi ngamnye makafumane ezintathu ezibomvu, ezintathu eziluhlaza okwesibhakabhaka nezintathu ezityheli izixhobo zokubala okanye iziciko zeebhotile.	Usuku olu-1
	Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso - Nika abafundi iphetshana elincinci. - Abafundi mabagqibezela iimilo ezinezakhiwo ezinokwakheka kuka- 2-D njengesiphelo - Gqibezela umfanekiso ngexesha lobugcisa obubonwayo ngokuthi uzobe umfanekiso phakathi. Karabo ○ △ ○ △ ○ △ ○ △ Siya ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	Iphepha elingu A4 Iikhrayoni	

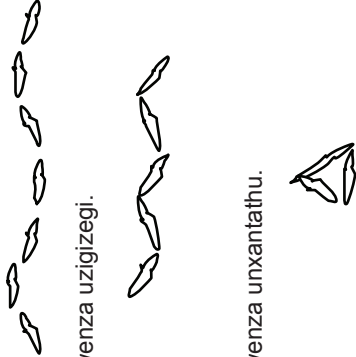
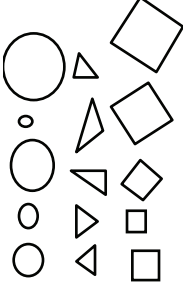
Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE - 15	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
ISHLOKO			
1.4 Ubude	<p>Thelekisa uze uhlele izinto ngokuzibamba esebenzisa isigama esifanelekileyo</p> <ul style="list-style-type: none"> - inde, imfutshane, - indana, imfutshanana, - eyona inde eyona imfutshane <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Umfundi omnye ulala phantsi. Abanye abafundi babeka iibhloko ngokomgca emacaleni omzimba wakhe. - Utitshala uyalela iklasi ukuba bakhe into emfutshane kunabahlobo babo nendana kunabahlobo babo. 	libhloko zokwakha	Usuku olu-1
	<p>Abafundi mabaqiniseke ukuba:</p> <ul style="list-style-type: none"> - Sesiphi isakhiwo esidana? - Sesiphi esona sakhiwo side? - Sesiphi isakhiwo esifutshanana? - Sesiphi esona sakhiwo sifutshane? 		
	<p>Abantwana mabalungise iindidi zezixhobo zokwenza izinto:</p> <ul style="list-style-type: none"> - Ukusuka kweyona inde ukuya kutsho kweyona imfutshane. - Ukusuka kweyona imfutshane ukuya kutsho kweyona inde. - Abafundi mabathelekise ubude bezinto ezahlukileyo. <p>Utitshala unika abantwana izijungqe zewulu okanye umtya. Bakhuthaze ukuba baqikelele phambi kokuba benze imilinganiselo.</p> <p>Abantwana mabathathe imilinganiselo:</p> <ul style="list-style-type: none"> - lintloko zabo. - linyawo zabo. - Amaqatha abo. - Izihlahla zabo. - Abafundi mabathelekise ubude obahlukileyo ngokubona ukuba zeziphi izijungqe zemitya ezidana okanye ezifutshanana umz. umlinganiselo womtya wentloko yam umdana kunalowo wesihlahla sam. - Abafundi mabaqiniseke ukuba uqikelelo lwabo lulungile kusini na. 	<p>Umtya</p> <p>Intambo</p> <p>Imicwe yelaphu</p> <p>Iikhrayoni ezinobude obahlukileyo</p> <p>Iwulu okanye umtya</p> <p>Abafundi</p>	

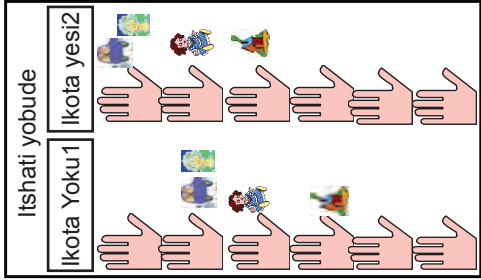
Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE-16	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>ISHLOKO</p> <p>1.1 Bala izinto</p>	<p>Fundisa intsingiselo yenani elingu -4 Ngomlomo: Bala izinto yonke imihla uye kuma ku-4 Bala usiya phambili ubale ubuya umva uye kuma ku- 4 Bala ngentloko ngokungenantsingiselo ukuqala ku-1-7</p> <p>Bethelela u –“ ninzi “no “mbalwa” Qhwaba izandla amaxesha amaninzi..... YIMA Qhwaba izandla amaxesha ambalwa.Utitshala uqhwaba aye kui- 4</p> <p>Ukufunda usebenzisa intshukumo yomzimba Abafundi mabenze oku:</p> <ul style="list-style-type: none"> - Nqwala intloko amaxesha ama- 4. - Abafundi mabonakalise u- 4 besebenzisa imizimba yabo. Mabaqiniseke ukuba bafuna abafundi aBangaphi. - Abafundi bavala amehlo abo.Utitshala ubetha etafleni amaxesha ama- 4.Abafundi bavula amehlo abo baxele ukuba bave izithonga ezingaphi.Phinda phinda ngamanani u-1 ukuya kwi- 4. 	<p>Izicengelezo zokubala neengoma Imizimba yabafundi</p>	<p>Usuku olu-1</p>

IVEKI YE-16	Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki		Ixesha elisondeleyo
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Usuku olu-1
<p>1.1</p> <p>Bala izinto</p>	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi mabenze oku:</p> <ul style="list-style-type: none"> - Yenza u- 4 usebenzisa intlama yokudlala. - Khangela abahlobo bakhe aba- 4 abanxibe izihlangu. - Khangela izinto ezi- 4 ezingqukuva. - Gquma amehlo abafundi baze bachonge la manani: 1 ukuya kwi- 4 ngokuva/ ngokukhuphela ikhadi lamanani eliviwayo. - Bonakalisa ukuqonda amanani ngokuthi abafundi babeke izixhobo zokubala/izinto ezine ngeendlela ezahlukileyo.umz. 	<p>Intlama yokudlala</p> <p>Izinto ezingqukuva</p> <p>Yenza ikhadi lamanani eliviwayo ngokusika amanani kwiphepha lokukhuhla(sand paper) uze uwancamathisele kwikhadi-bhodi encinci.Ungawagquma ngeplastiki encamatheleyo ukuze abafundi bakwazi ukwenza amanani omdongwe kula makhadi. Izinto zokubala ezi-4 okanye izinto ezine zomfundi ngamnye.</p> <p>Iimagazini,iiflaya,iintengiso</p> <p>Iphepha le A4 neglu</p> <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <p>Umfanekiso wezinto ezi-4</p>  </div>	
	<p>Xa ubala inani lezinto alichatshazelwa bubukhulu,indawo okanye uhlobo olunye.Umz:</p> <ul style="list-style-type: none"> - Lungisa amaqhosha ama- 4, iipensile ezi- 4, izangqa ezi- 4, abafundi aba- 4 nji-nji. - Zibale ezi zinto ngeendlela ezahlukileyo umz. Zibale zithe saa, sisondelelene, zisemgqeni okanye zibekwe enye phezu kwenye. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Abafundi mabenze oku:</p> <ul style="list-style-type: none"> - Khangela imifanekiso emi- 4 uze uyincamathisele ephepheni. - Tshatisa inani lezinto namanani amachaphaza akunotsheluzi. - Chonga unotsheluzi onamachaphaza amane. 		

IVEKI YE-16	Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye matematika ngeveki)	
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe
<p>1.4</p> <p>Chaza, thelekisa uze ucwangcise amanani</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Sebenzisa inani elingu-4 kwiimeko eziqhelekileyo <ul style="list-style-type: none"> - Ingaba inani elingu -4 likwenza ucinge ntoni? <ul style="list-style-type: none"> Imoto- amavili amane Isitulo- imilenze emine Inja - iintupha Itafile - imilenze emine - Ukukhulisa ukukhumbula, khuthaza abafundi ukuba bafunde ngentloko inombolo zakumawabo negama lesitalato. <p>Izinto eziphathekayo ezinokwakhaka kuka- 3-D</p> <ul style="list-style-type: none"> - Nika ithuba lokudlalwa kwemidlalo yamakhadi amanani yiklasi yonke. <p>Ukusebenzisa iimilo ezinokwakhaka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Bonisa ikhadi elinesimboli yenani u- 4 <p>Dlala imidlalo efana nale:</p> <ul style="list-style-type: none"> - Ukuba inombolo yendlu yakokweni unenani elingu-4, qhwaba ka-4. - Khangela umhlobo wakho onenombolo yendlu efanayo neyakokwenu. (Abafundi mababuzane inombolo zamakhaya abo) - Ngubani onenombolo yakokwabo enamanani angaphezulu kwe-4? - Bonisa abafundi unotsheluzi onamachaphaza amane. - Chonga unotsheluzi onemifanekiso emine. 	<p>Ixesha elisondeleyo</p> <p>Usuku olu-1-1</p> <p>Iidilesi zamakhaya abafundi</p> <p>Abafundi</p> <div style="border: 1px solid black; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center; margin: 10px auto;">4</div> <p>Imidlalo yamakhadi amanani nokuba yeyiphi na.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Umfanekiso wezinto ezi-4 </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> </div> <p>Oonotsheluzi abanemifanekiso namachaphaza ama -4</p>

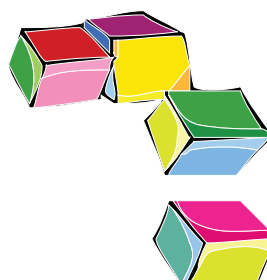
Ixeshha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE-16	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixeshha elisondeleyo
ISHLOKO 3.2 Izinto ezinokwakheka kuka 3-D	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Ukuphononnga amathuba okwakha ngeebhloko Abantwana mabenze oku: <ul style="list-style-type: none"> - Sebenzisa iibhloko ezi-4 ukwakha isakhiwo sakhohlo. - Yakha isakhiwo esineebhloko ezintathu ukunyuka neebhloko ezi-5 ukunqamleza. - Sebenzisa iibhloko kangokuba befuna ukwakha uloliwe. - Chonga ukuba ngowuphi umntu owakhe oyena loliwe mde. - Yakha isakhiwo esiphakamileyo. - Yakha isakhiwo esithe tyaba umz .indlela okanye indlu. - Chonga ukuba ngubani owakhe esona sakhiwo siphakamileyo. - Nika abafundi iibhloko zokwakha ngexesha lokudlala ukuze bakwazi ukuqhubeka beHlola iibhloko zokwakha. • Khulisa ukukwazi ukohlula phakathi kwezinto ezisingqongileyo, ngaphandle kobukhulu, okanye ubungakanani be-eengile. <p>Ukufunda usebenzisa intshukumo yomzimba Yahlula abafundi babe ngamaqela ama-3:</p> <ul style="list-style-type: none"> - Lalani phantsi nize nenze unxantathu ngemizimba yenu. Yalatha ukuba noxa unxantathu weqela unemilo eyahlukileyo kwelinye yelinye iqela, imilo iseyileyo kanxantathu. - Utitshala uzoba oonxantathu abohlukileyo phantsi/emhlabeni umz. 	<p>iibhloko zokwakha umz.</p> 	<p>Usuku olu-1</p>
3.2 Izinto ezinokwakheka kuka 2-D	 <ul style="list-style-type: none"> - Abafundi bahamba ecaleni kwamacala emilo baze babe namava ee-engile ezahlukileyo ngemizimba yabo. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Sebenzisa amasebe asi-7 uze uwabeke emgceni 	<p>Abafundi</p> <p>Amasebe asi-7 omfundi ngamnye</p>	<p>Usuku olu-1</p> <p>Khetha umsebenzi ube mnye osebenzisa ukufunda usebenzisa intshukumo yomzimba, eziphathekayo nemifanekiso</p>

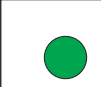
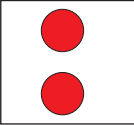
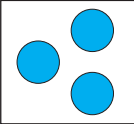
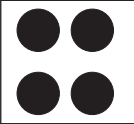
Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE-16	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
ISHLOKO 3.2 Izinto ezinokwakheka kuka 2-D	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> - Sebenzisa amasebe ukwenza umgca ogoso. - Sebenzisa amasebe ukwenza uzigizegi. - Sebenzisa amasebe ukwenza unxantathu. - Yalatha ukuba oonxantathu babamntwana abafani kodwa ke imilo iseyileyo kanxantathu. 		
	<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye iimifanekiso</p> <p>Utitshala uzoba kunotsheluzi izangqa,oonxantathu nezikwere ezi-5 ezahlukileyo.umz</p>  <p>Utitshala wohlula abafundi babe ngamaqela. Abafundi maba:</p> <ul style="list-style-type: none"> - Nakana oonotsheluzi bakanxantathu phakathi kwezinye iimlo. 	<p>Amakhadi anezangqa,oonxantathu nezikwere ezi-5 ezahlukileyo.</p>	

IVEKI YE-16	Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasu eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki)		Ixesha elisondeleleyo
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	
<p>4.2 Ubude</p>	<p>Thelekisa ngokwenza uze ucwangcise izinto usebenzisa isigama esifanelekileyo ukuchaza ubude.</p> <ul style="list-style-type: none"> - de, futshane, - ndana, mfutshanana, - eyona inde, eyona imfutshane, - futshane, mfutshanana, eyona imfutshane, - de, ndana, eyona inde - inde, imfutshane, - indana, imfutshanana, - eyona inde eyona imfutshane <p>Bethelela ubude Ukufunda usebenzisa intshukumo yomzimba</p> <p>Ema kwenziwe ngabafundi:</p> <ul style="list-style-type: none"> - Hlola ubude ngokuthi uthlekise ubude bezinto, kwenye. - Qonda ukuba yeyiphi eyona nto iyeyona inde okanye eyona imfutshane. - Thelekisa ubude babafundi ababini uze uchonge ukuba ngowuphi umfundi omfutshane ingowuphi omde. - Thelekisa ubude babafundi abaninzi kunesibini uze ubuze le mibuzo “ngowuphi oyena mfundi mfutshane, ngowuphi oyena mfundi mde. - Utitshala uthatha umlinganiselo wabafundi esebenzisa itshati yobude ebeyisebenzisa kwikota yoku- 1. - Utitshala ushiya imibhalo yekota edlulileyo apho abhale khona imilinganiselo yabantwana (izandla /iisimboli zabantwana) ukuze bakwazi ukuthlekisa imilinganiselo emibini. - Abafundi bafumanisa ukuba ingaba bakhulile ukusuka kwikota yoku- 1. - Ngubani ongakhange akhule? - Ngubani okhule kakhulu ukusuka kwikota yoku- 1? umz <ul style="list-style-type: none"> o USipho ukhule ngesandla esinye o Ubude buka Abby buyinto enye. 	<p>Ipensile, intambo, Umtya, ipegi Itshati yezandla</p> 	<p>Usuku olu-1</p>

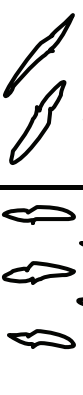

Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE- 17	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
ISHILOKO			
1.1 Bala izinto	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> Bethelela ulwazi alufumeneyo ngentsingiselo yenani u-4 <p>Ngomlomo: Bala izinto yonke imihla uye kuma ku-4 Bala usiya phambili, ubale ubuya umva uye kuma ku-4</p> <p>Bethelela u –“ ninzi “no “mbalwa”</p> <p>Qhwaba izandla amaxesha amaninzi.....YIMA Qhwaba izandla amaxesha ambalwa.Utitshala uqhwaba aye ku-4</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Abafundi:</p> <ul style="list-style-type: none"> - Bhala u- 4 emoyeni usebenzisa umnwe - Cula ingoma umz. “amahotyazana mane emthini..... - Jikajika amaxesha ama- 4 <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi mabakhulise ulwazi lwabo lwamanani ngoku:</p> <ul style="list-style-type: none"> - Zoba u-4 esantini. - Khangela izinto ezinokwakheka kuka 3-D ezikwazi ukuqengqeleka. - Yakha iipazili usebenzisa izicwili zephazili ezi- 4. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Utitshala ukhetha amagama ama- 4 konootsheluzi.Utitshala ubonisa igama ngokukhawuleza aze enze njalo abonise umfanekiso wesilwanyana okanye into yokudlala. - Umfundi obekhethiwe ngokuthi kuboniswe igama lakhe ngokukhawuleza uyalelwa ukuba enze ingxolo eyenziwa yiloo nto yokudlala. - Phinda phinda ude ubonise onke loo magama. - Buza ukuba mangaphi amagama abafundi abonisiweyo.Zingaphi izinto zokudlala// izilwanyana abazibonileyo. 	<p>lingoma zamanani nezicengcelezo</p>	<p>Usuku olu-1</p>
		<p>Itreyi yokubhaka emcaba/ibhokisi yesanti Izinto ezinokwakheka kuka 3-D ezikwazi ukuqengqeleka. Izicwili zephazili ezi- 4</p> <p>Amakhadi anemifanekiso ezinto zokudlala. Amakhadi anemifanekiso ezilwanyana</p>	

Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE- 17	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
ISHLOKO 1.3 lisimboli zamanani kunye namagama amanani	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Yazi iisimboli zamanani uze uqaphele igama lenani elingu-4 <p>Ngomlomo: Bala izinto yonke imihla uye kuma ku-4 Bala usiya phambili, ubale ubuya umva uye kuma ku-4</p> <p>Bethelela u –“ ninzi “no “mbalwa” Qhwaba izandla amaxesha amaninzi..... YIMA Qhwaba izandla amaxesha ambalwa.Utitshala uqhwaba aye ku -4</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Bhala inani u-4 emoyeni, phantsi, emqolo kumhlobo wakhe. - Phakamisa iminwe emi-4. - Utitshala ubetha igubu.Xa igubu liyeka abafundi bazahlula ngokwamaqela amane. 	<p>lingoma zamanani nezicengelezo</p>	<p>Usuku olu-1</p>
	<p>Ukusebenzisa imilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Bonisa abafundi unotsheluzane onesimboli ka-4. - Chonga igama lenani kunotsheluzane. - Tshatisa igama lenani nenani elilinganayo lezinto. 	<p>Onotsheluzane abanesimboli yenani. Unotsheluzane onegama lenani elingu-4 Izinto ezinokwakheka kuka 3-D</p>	<p>4</p> <p>ne</p>

Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki			
IVEKI YE- 17	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
ISHILOKO 1.7 Ukudibanisa nokuthabatha	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> Sombulula ngomlomo izibalo zamazwi (izibalo ezingamabali) aze anike isisombululo kwiingxaki ezinenani elingu-4. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> Utitshala ukunika iibhloko ezi-2 ube wena uneebhloko ezi-2.Zingaphi iibhloko onazo ngoku? Ukuba unezangqa ezibhlowu ezi-2 nezangqa ezi-2 ezibomvu, zingaphi izangqa zakho zizonke? USipho uneekhrayoni ezi-4, uJoy unekhrayoni e-1. Ngubani onekhrayoni ezininzi? Ukuba uJonga unoonodoli aba-4 aze alahlekelwe ngunodoli o-1.Bangaphi oonodoli abashiyekileyo? <p>Hlula abafundi babe ngamaqela.</p> <ul style="list-style-type: none"> Nika iqela ngalinye izinto ezininzi.umz iipensile,ikhrayoni,iikomityi,iimilo.Abafundi mababelane ngezinto kumaqela onke (ungqinelwano lwamanani) Buza imibuzo efana nale: “Ingaba zikhona izinto ezishiyekileyo?” (Utitshala uqinisekisa ukuba kukho inani elininzi lezinto kunenani labafundi) Susa ezinye izinto ukubonisa ukwabelana ngokulinganayo) 	 <p>iibhloko Ikhrayoni Izangqa ezibhlowu nezibomvu Oonodoli</p> <p>Izinto ezaneleyo zomfundi ngamnye ezifana neepensile, iikhrayoni, iikomityi, iimilo.</p>	<p>Usuku olu- 1</p>

IVEKI YE- 17	Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yekhasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki)			Ixesha elisondeleyo
ISIHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe		
<p>1.4 Chaza, thelekisa uze uhlele amanani</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Cwangcisa uze uthelekise ingqokelela yezinto usebenzisa u ngaphezulu kune, ngaphantsi kune, lingana ne ukuya kwinqanaba elingu-4. <p>Hlula abafundi ngokwamaqela:</p> <ul style="list-style-type: none"> - Utitshala unika iqela ngalinye izixhobo zokubala ezi-4 nezijungqe zewulu ezi-2. <p>Amaqela mawenze oku:</p> <ul style="list-style-type: none"> - Yila izangqa ezibini (iiseti) ngewulu. - Ngokomyalelo katitshala babeka izixhobo zokubala kwiseti nganye. - Amalungu eqela achonga iseti enezinto zokubala ezininzi kunye (ngaphezulu kune) - Sesiphi isangqa esinezinto zokubala ezingaphantsi kunesinye.(ngaphantsi kune) - Sesiphi isangqa esinenani elilinganayo nesinye isangqa? (lingana ne) <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Lungisa iseti yamakhadi emifanekiso ngendlela efanelekileyo.umz</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 2px;">Umfanekiso wento e-1</div> <div style="border: 1px solid black; padding: 5px; margin: 2px;">Umfanekiso wezinto ezi-2</div> <div style="border: 1px solid black; padding: 5px; margin: 2px;">Umfanekiso wezinto-3</div> <div style="border: 1px solid black; padding: 5px; margin: 2px;">Umfanekiso wezinto-4</div> </div> <p>Lungisa iseti yamakhadi amachaphaza ngendlela efanelekileyo umz.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 2px;"></div> <div style="border: 1px solid black; padding: 5px; margin: 2px;"></div> <div style="border: 1px solid black; padding: 5px; margin: 2px;"></div> <div style="border: 1px solid black; padding: 5px; margin: 2px;"></div> </div>	<p>Iwulu/umtya Izixhobo zokubala ezi- 4</p>		<p>Usuku olu-1</p>

IVEKI YE- 17	Ixesha lokufundisa ekucetyiswa into yokuba lisetyenziswe: Iplani ekhokelwa ngutitshala enemisebenzi yeklasi eyimizuzu engama 30 ngosuku (5 ezemisebenzi ye mathematika ngeveki		Ixesha elisondeleyo
ISHLOKO	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Usuku olu-1
<p>5.1 Qokelela uze uhlele izinto</p> <p>5.2 Bonisa ingqokelela yezinto ezihleliweyo</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Khulisa indlela yokusebenza ngolwazi oluqokeleliweyo Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D <ul style="list-style-type: none"> - Abafundi mabaqokelele amasebe ali-9. - Hlela amasebe ngokobuncinci nobukhulu. Zoba igravu ukubonisa ulwazi llimilo ezinokwakheka kuka 2-D okanye imifanekiso <ul style="list-style-type: none"> - Yenza igravu yemifanekiso enamasebe. - Abafundi babeka amasebe kwigravu yemifanekiso ngokobungakanani-ncinci/nkulu. 	<p>Abafundi baqokelela amasebe</p> <p>Iphepha lokufunda legravu yemifanekiso. Utitshala uyilela abafundi iphepha lika A4 elinemiqolo efanelekileyo.</p>	Usuku olu-1
<p>5.3 Xoxa uze unikezele ingxelo ngezinto ezihleliweyo</p>	<p>Funda uze utolike igravu Thetha ngeziphumo ngokubuza imibuzo umz. Mangaphi amasebe amancinci? Mangaphi amasebe amakhulu? Ngawaphi awona maninzi/mbala?</p>		

Amasebe amancinci	Amasebe amakhulu
	
5	3

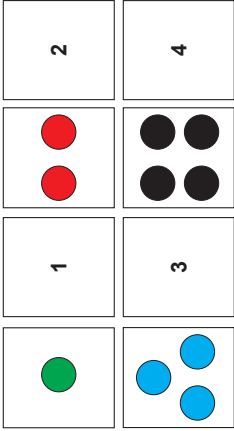
Ixesha Lokufundisa Elicetyisiweyo : Umsetyenzana omnye weplani ekhokelwe ngutitshala (isangqa) owe ± 30 imizuzu ngosuku (± 5 imisetyenzana yeMathematika ngeveki)			
Isihloko	Amanqaku angcaciso	Izixhobo zokufundiswe ukucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
1.1 Bala izinto	<p>Bethelela ulwazi olufunyenwe kuqukwa amanani 1, 2, 3 no -4</p> <p>Ngomlomo: bala izinto zemihla ngemihla ukuya ku-4</p> <p>Bala usiya phambili, ubale ubuya umva ukuya ku-4</p> <p>Ukubala ngentloko ngokungena ntsingiselo 1-7</p> <p>Bethelela isigama 'ninzi' no "mbalwa"</p> <p>Qhwaba izandla kaninziYIMA</p> <p>Qhwaba izandla kambalwa. Utitshala uqhwaba ka- 4.</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Cinezele inani-1 esibhakabhakeni besebenzisa iminwe. - Abafundi mababambe iintloko zabo kabini. - Babambe izandla nabanye abafundi abane. - Vala amehlo abafundi uthi mabachonge amanani 1-4 ngokulandela abakuvayo xa becinezela koonetsheluzi bamagama 	<p>lingoma zamanani neemvano-siphelo</p> <p>Itreyi /ibhokisi enesanti</p> <p>Iseti yonootsheluzi bamagama (likhadi zamanani)</p>	Usuku olu- 1
1.11 Imali	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Zobe inani lokuqala esantini. - Fumane u-3 kwizinto ezifanayo. - Xhuma-xhuma endaweninye kabini. - Yakha iiphazili ngezijungqe ezi-4 nangaphezulu. <p>Ukunakana nokuchonga imali eziinkozo/umwangelala yaseMzantsi Afrika</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Yenza abafundi baqonde imifanekiso eyahlukileyo yezilwanyana nezityalo emalini ezinkozo. - Ukubekeleleka kwemali kungasetyenziswa kwikona yeZakhono zoBomi apho abafundi banokudlala khona ivenkile. Ngomdlalo abafundi baphicothe iindidi zemali eziinkozo. 	<p>Neziphi izinto</p> <p>Abafundi</p> <p>Iiphazili zezijungqe ezi-4</p> <p>5c, 10c, 20c, 50c, R1, 00, R2, 00 and R5, 00 imali ezinkozo (imali yokudlala okanye imali yakwenyani)</p>	Usuku olu- 1

Ixesha Lokufundisa Elicetyisiweyo : Umsetyenzana omnye weplani ekhokelwe ngutitshala (isangqa) owe ± 30 imizuzu ngosuku (± 5 imisetyenzana yeMathematika ngeveki)			
Iveki ye- 18	Amanqaku angcaciso	Izixhobo zokufundis aekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
<p>Isihloko</p> <p>1.7</p> <p>Ukudibanisa nokuthabatha</p>	<p>Amanqaku angcaciso</p> <p>Ukusombulula izibalo zokudibanisa nezokuthabatha ezichazwe ngomlomo ukuya ku-4</p> <p>Ngomlomo: bala izinto zemihla ngemihla ukuya ku-4 . Bala ukuya phambili, ubale ukubuya umva ukuya ku-4 . Ukubala ngentloko ngokungenantsingiselo 1-7</p> <p>Bethelela isigama 'ninzi' no "mbalwa"</p> <p>Qhwaba izandla kaninziYIMA</p> <p>Qhwaba izandla kambalwa. Utitshala uqhwaba ka- 4.Ukufunda usebenzisa intshukumo yomzimba</p> <p>Imizekelo:</p> <ul style="list-style-type: none"> - Utitshala ubizela umfundi phambi kwekasi. Aphinde abize abanye abathathu. Ubize abafundi aBangaphi xa bebonke? - Utitshala upakisha izinto zokubala ezithathu. Wongeza enye. Zingaphi izinto zokubala eziphezu kwetafile? - Abafundi bama phambi kweklasi. Utitshala ucela umfundi omnye ahlale phantsi. Bangaphi abafundi abaphambi kweklasi ngoku? - UBusi uneepensile ezi- 4. Unika uWelele ipensile ezi-2.UBusi ushiyeke neepensile ezingaphi? 	<p>lingoma zamanani neemvano-siphelo</p> <p>Abafundi</p> <p>Izinto zokubala</p> <p>lipensile</p> <p>Sebenzisa iindidi ngeendidi zezixhobo ukukunika amacebo okusebenzisa iindlela ezahlukileyo zokufundisa.</p>	<p>Usuku olu- 1</p>

Iveki ye- 18	Ixesha Lokufundisa Elicetyisiweyo : Umsetyenzana omnye weplani ekhokelwe ngutitshala (isangqa) owe ± 30 imizuzu ngosuku (± 5 imisetyenzana yeMathematika ngeveki)		
Isihloko	Amanqaku angcaciso	Izixhobo zokufundis aekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>1.4 Chaza, thelekisa uze ulandelelanise amanani</p>	<p>• Landelelanisa uthlekise ingqokelela zezinto ngokusebenzisa “ninzi kune, mbalwa kune” no “lingana ne” ukuya kwinani lesi-4</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Utitshala umika ilungu ngalinye leqela inani elithile leekhrayoni. - Amalungu eqela makachonge oyena mfundi oneekhrayoni ezininzi kwezabanye. - Ngowuphi umfundi oneekhrayoni ezimbalwa kunezabanye ? - Ngabaphi abafundi abanamanani alinganayo eekhrayoni ? <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D/imifanekiso</p> <ul style="list-style-type: none"> - Cwangcisa iiseti zoonotsheluzi bamanani aquka amanani 1-5 ngokulandelelana, umzekelo, <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">●</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">● ●</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">● ● ●</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">● ● ● ●</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">● ● ● ● ●</div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">1</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">2</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">3</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">4</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">5</div> </div> <ul style="list-style-type: none"> - Buza imbuzo efana noku “ ngabaphi oonotsheluzi abanezinto ezininzi ?” - Leliphi inani elikhulu kune-2 ? njalo njalo, 	<p>iikhrayoni</p> <p>Oonotsheluzi bamanani namachaphaza</p>	<p>Usuku olu- 1</p>


Iveki ye- 18	Ixesha Lokufundisa Elicetyisiweyo : Umsetyenzana omnye weplani ekhokelwe ngutitshala (isangqa) owe ± 30 imizuzu ngosuku (± 5 imisetyenzana yeMathematika ngeveki)		
Isihloko	Amanqaku angcaciso	Izixhobo zokufundis aekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleleyo
<p>2.1 lipateni zejyometri</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Khuphela ugqibezele ipateni enikiweyo ngemali eziinkozo/mwangelala. Khuphela ipateni enikiweyo <ul style="list-style-type: none"> - Utitshala useta ipateni esebenzisa “ imali yokudlala” , umzekelo, 5c, 5c, 10c, 10c, 10c, 20c, 20c, 20c <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Khuphele iipateni ezininzi eziyilwe ngutitshala. <p>Gqibezela ipateni enikiweyo</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Gqibezele ipateni ezininzi eziyilwe ngutitshala, umzekelo, <ul style="list-style-type: none"> o 5c, 5c, 10c, 10c,..... o 5c, 10c,..... o 10c, ,20c.....njalo njalo 	<p>Imali yokudlala okanye imali yokwenyani (5c, 10c, 20c)</p>	<p>Usuku olu- 1</p>

Ixesha lokufundisa elicetyisiweyo: Umsetyenzana omnye weplani ekhokelwe ngutitshala (isanga) owe ± 30 imizuzu ngosuku (± 5 imisetyenzana yeMathematika ngeveki)		
Iveki ye- 19	Amanqaku angcaciso	Ixesha elisondeleyo
Isihloko	Izixhobo zokufundis aekucetyiswa ukuba zisetyenziswe	Usuku olu- 1
1.1 Bala izinto	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Bethelela ulwazi olufunyenweyo oluquka amanani 1, 2, 3 no 4. <p>Ngomlomo l: bala izibali zemihla ngemihla ukuya ku-4. Bala ukuya phambili, ubale ukubuya ukubuya umva ukuya ku-4. Ukubala ngentloko okungenantsingiselo 1-7</p> <p>Bethelela “ninzi” no “mbalwa” . Qhwaba izandla amaxesha amaninziYIMA . Qhwaba izandla amaxesha ambalwa. Utitshala uqhwaba amatyeli ama- 4</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Utitshala uphakamisa unotsheluzo wamanani onenani elingu-3 athi kubafundi:</p> <ul style="list-style-type: none"> - Ndinga amakhwenke alinani elithile. - Ephakamise inani- 2 esithi, ndidinga inani lamantombazana alinani elithile. - Yakhani amaqela (ephakamise inani-2). - Phinda umsetyenzana ngoonotsheluzo abanenani ku-1-4 	lingoma zamanani neemvano-siphelo.
1.16 Izibalo zentloko	<p>Izibalo zentloko</p> <p>Utitshala uphakamisa unotsheluzo wenani -3 abuze abafundi:</p> <ul style="list-style-type: none"> - Leliphi eli nani? - Leliphi inani eliza phambi kuka-3? - Leliphi inani elilandela emva kuka-3? - Phinda ngamanani u1-4 . - Ungandibonisa na unotsheluzo onenani elifana nenani lamachaphaza akulo unotsheluzo? 	Unotsheluzo wesimboli yamanani enamanani 1-4 Umzekelo, <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center; margin: 0 auto;">3</div>
		Iseti yoonotsheluzo bemifanekiso namachaphaza ukusuka ku1-4

Iveki ye- 19	Ixesha lokufundisa elicetyisiweyo: Umsetyenzana omnye weplani ekhokelwe ngutitshala (isanda) owe ± 30 imizuzu ngosuku (± 5 imisetyenzana yeMathematika ngeveki)	
Isihloko	Amanqaku angcaciso	Izixhobo zokufundiswe ukucetyiswa ukuba zisetyenziswe
<p>1.16</p> <p>Izibalo zentloko</p>	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Utitshala uqhweba ngesingqisho ngokucitha ukubonakalisa inani. Abafundi mabakhuphe amaso alingana nelo nani bawabonise, umzekelo, amaso a-4. - Abafundi mababeke amaso a-1, 2, 3 okanye 4 phambi kwabo. - Abafundi mababonise ukuba mangaphi amaso abanayo ngokuwathlekisa nonotsheluzi, umzekelo, amaso a-4 nenani -4. - Mabakhangele omnye umfundi onenani elifanayo lamaso. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D/imifanekiso</p> <p>Utitshala uphakamisa unotsheluzi wamanani enziwe ngamachaphaza wenani - 2 abuze kubafundi:</p> <ul style="list-style-type: none"> - Mangaphi amachaphaza kulo notsheluzi? - La machaphaza amele eliphi inani? - Leliphi inani elilandela eli? - Mababale elonani lamachaphaza emaphepheni abo. 	<p>Amaso ama-4 kumfundi ngamnye</p> <p>Onotsheluzi bamanani 1,2,3 no 4</p> <p>Onotsheluzi bamachaphaza</p> 
		Ixesha elisondeleyo

Iveki ye- 19	Ixesha lokufundisa elicetyisiweyo: Umsetyenzana omnye weplani ekhokelwe ngutitshala (isanga) owe ± 30 imizuzu ngosuku (± 5 imisetyenzana yeMathematika ngeveki)	
Isihloko	Amanqaku angcaciso	Ixesha elisondeleyo
<p>1.7</p> <p>Ukudibanisa nokuthabatha</p>	<p>• Ukusombulula izibalo zokudibanisa nokuthabatha ngomlomo nezisombululo ukuya ku-4</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Bizela abafundi abathathu ngaphambili. Babale. - Biza omnye umfundi. Bangaphi xa bebonke? 3 no 1→4 (untathu nonye banika 4) - Buyisela abafundi aba -3 emva ekhaphethni. Bangaphi abafundi abakhoyo ngoku? 4 thabatha 3→1 <p>Yohlula abafundi ngokwamaqela.</p> <p>Buza imibuzo efana nale:</p> <ul style="list-style-type: none"> - Zingaphi iimpumlo ozibonayo eqeleni lakho? - Mingaphi imilomo? - Mingaphi imizimba: - Kubafundi ababini, mangaphi amehlo? - Kubafundi ababini, mingaphi imilenze? <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <ol style="list-style-type: none"> 1. Utata kaLindiwe unemoto. Mangaphi amavili akulo moto? 2. Xa kuphantshe ivili elinye lakhutshwa emotweni, kushiyeke amavili amangaphi? 3. Inkukhu inamantshontsho ama- 4. Ama- 2 alahleka. Mangaphi akhoyo enkukhwini? 4. Isikhukukazi sifumana amantshontsho aso ebelahlekile. Sinamantshontsho amangaphi ngoku? 	<p>Izixhobo zokufundisa akucetyiswa ukuba zisetyenziswe</p> <p>Izinto zokubala</p> <p>Sebenzisa iindidi zezixhobo ukwazi ukuba namava okusebenzisa iindlela ezininzi zokufundisa.</p> <p>Izinto zokubala</p>
		<p>Usuku olu- 1</p>

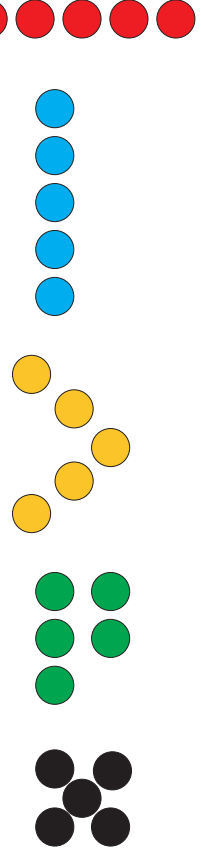
Ixesha lokufundisa elicetyisiweyo: Umsetyenzana omnye weplani ekhokelwe ngutitshala (isanga) owe ± 30 imizuzu ngosuku (± 5 imisetyenzana yeMathematika ngeveki)			
Iveki ye- 19	Amanqaku angcaciso	Ixesha elisondeleyo	
Isihloko		Izixhobo zokufundisa akucetyiswa ukuba zisetyenziswe	
1.4 Chaza, thelekisa uze ulandelelanise amanani	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Landelelanisa uthelekise iingqokelela zezinto ngokusebenzisa “ninzi kune, ncinzi kune” ne “lingana ne” kwinani -4 <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala ubeka iindidi zeezinto phezu kwetafile, umzekelo, iikhrayoni ezimbini, iibhloko ezi-4 ezifanayo, iinkonkxa ezi-3, iincwadi ezi-2. <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Bale inani leekhrayoni neenkongxa. Ingaba iikhrayoni zininzi kuneenkongxa? - Bale inani leebloko neleencwadi. Ingaba iibhloko zibalwa kuneencwadi? Ingaba iibhloko zininzi kuneencwadi? - Bale inani leencwadi neleekhrayoni. Ingaba ayalingana amanani ezinto okanye hayi? <p>Ukusebenzisa izinto eziphathekayo ezinokwakhaka kuka 3-D</p> <ul style="list-style-type: none"> - Abafundi mabahlale ekhaphethini banikwe inani lezinto zokubala umfundi ngamnye. - Umfundi ngamnye makabe nenani elahlukileyo lezinto zokubala. - Abafundi mababeke izinto zokubala phambi kwabo. Utitshala ubuza abafundi: <ul style="list-style-type: none"> o Ngoobani abanezinto zokubala ezininzi? o Ngoobani abanezinto zokubala ezimbalwa? o Ngoobani abanezinto zokubala ezilinganayo? 	Usuku olu- 1	
3.3 Izinto ezinokwakhaka kuka 2-D	<p>Nakana, chonga, uchaze imilo ezinokwakhaka kuka 2-D eklasini nakwimifanekiso</p> <ul style="list-style-type: none"> • Yila ugqibe iphazili yezijungqe ezi- 4 (Nxibelelanisa noBuchule boKubonwayo) <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Zobe umfanekiso ephepheni le A4. - Utitshala uzoba imigca emva komzobo womfundi. - Umfundi usika umfanekiso kwimigca ebonisiweyo. - Umfundi ugqibezela/wakha eyakhe iphazili. 	<p>Izinto zokubala</p> <p>Utitshala unika umfundi ngamnye izinto zokubala zamanani ahlukeyo ukuya ku-4</p> <p>imizobo yabafundi</p> 	Usuku olu- 1

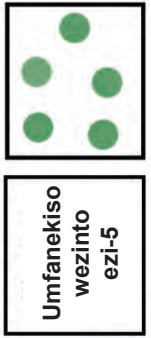
Ixesha lokufundisa elicetyisiweyo: Umsetyenzana omnye weplani ekhokelwe ngutitshala (isanga) owe ± 30 imizuzu ngosuku (± 5 imisetyenzana yeMathematika ngeveki)		
Iveki ye- 19	Amanqaku angcaciso	Ixesha elisondeleyo
<p>Isihloko</p> <p>4.1</p> <p>Ixesha</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Yakha ukuqwalasela okwenzekayo phakathi kwesidlo sasebusuku nexesha lokulala (Nxulumanisa nezihloko zoLwazi olusisiseko kwiZakhono zoBomi) <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Thethe ngabakwenzayo emva kwesidlo sasebusuku. - Thethe ngokwenzekayo emakhaya emva kwesidlo sasebusuku. <p>Utitshala ubuza:</p> <ul style="list-style-type: none"> - " uza esikolweni ekuseni okanye ebusuku?" - Ukuba uNcedo ufika esikolweni emva kokukhala kwentsimbi, ufike emva kwexesha okanye phambi kwexesha? - Ilanga libaphi ebusuku?" <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Abafundi bazoba umfanekiso ukubonisa nayiphi into eyenzeka emva kwesidlo sasebusuku. - Nika iiphazili ezibonisa ukulandelelana kweziganeko/imisebenzi. 	<p>Izixhobo zokufundisa akucetyiswa ukuba zisetyenziswe</p> <p>Imifanekiso ebonisa okwenzekayo ukusuka ngexesha lesidlo sasebusuku ukuya kwixesha lokulala.</p>  <p>Usuku olu- 1</p>

Iveki yama- 20	Sebenzisa iveki yama- 20 ukuhoya izithinteli kufunda	Iindlela zokuHlola
Umxholo Amanani, ii-opareyishini noLwalamano	Isihloko 1.1 Bala izinto	Qikelela nokubala ngentloko ngokungenantsingiselo ukuya ku-7 (iingoma zamanani nezicengcelezo eziquka ukukhulisa iingqiqo yamanani) Bala ubuya umva nokubala usiya phambili (1-4) Gonda iingqiqo "ninzi no mbalwa" (ukuqhwaba) Nakana amanani kwiimeko eziqhelekileyo, umzekelo, inani lendlu, idilesi Chonga imifanekiso yamanani namakhadi anamachaphaza Zazi iisimboli zamanani 1, 2, 3, 4 Nakana amagama amanani u-bini, ntathu kunye no-ne Gonda ukuhambelana kwamanani (Itshati yabancedisi ngexesha lokutya) Yahlula phakathi kuka ninzi, ncinci, inganayo, ninzi nombalwa ukuya ku-4 Nakana iindidi zemali eziinkozo zaseMzantsi Afrika Sebenzisa izixhobo ezibonakalayo Chaza iingcinga zakho ngamagama nangemizobo okanye izinto ezibonakalayo
	1.6. Ubuchule/iindlela zokusombulula iingxaki zezibalo	Sombulula iingxazi zokudibanisa nokuthabatha ngomlomo
	1.7. Ukudibanisa nokuthabatha	
IiPateni neeFankshini	2.1. Iipateni zejyometri	Kopa, yandisa, uze uyile iipateni zakho (izinto, iimilo nemali yenkozo)

Iveki yama- 20 Sebenzisa iveki yama- 20 ukuhoya izithinteli kufunda		Iindlela zokuHlola
Umxholo Isithuba nemilo (Ijyometri)	Isihloko 3.1. Indawo-bume, ukufumana indawo nembonakalo	Qonda indawo-bume yenzinto ezimbini nangaphezulu ngokunxulumene nomfundi ngaphezulu , ngaphantsi
	3.2. Iimilo enokwakheka kuka 2-D 3.2 .Izinto ezinokwakheka kuka 3-D	Yakha iphazili ubuncinane ezili- 12 Bonakalisa ulwazi lokwahlula phakathi kwezinto ezingaphambili nezingasemva (phinda uhlole) Nakana, chonga uxele oonxantathu Qonda imilo kanxantathu (ukuqonda iimilo) Thelekisa yeyiphi kwezimbini ezinikiweyo iingqokelela yezinto ezinde, ezindana; mfutshane/ mfutshanana Hlela izinto ngokobukhulu- ubude nobufutshane Imibala –(bomvu, mthumbi, bhlowu noluhlaza) Imilo Sebenza ngobuchule ngeebhloko ezakhayo Nakana umgca wolingano- macala kuye nakokumngqongileyo Ukukwazi ukuwela umgca ophakathi
Umilinganiso	3.4 Ulingano- macala 4.1 Ixesha	Qonda iintsuku zeveki, amaxesha onyaka netshati yemozulu (iingoma nezicengelezo – phinda uhlole) Yazi usuku lwakhe lokuzalwa (phinda uhlole)
	4.2 Ubude 5.1 Qokelela uze uhlele izinto 5.2 Bonisa ingqokelela yezinto ezinleliweyo 5.3 Xoxa uze unike ingxelo ngengqokelela yezinto ezihleliweyo	Ukwahlula phakathi kweyona inde, eyona imfutshane, endana, emfutshanana (itshati yobude) Ukwazi ukuqokelela, ukuhlela, ukuzoba, ukufunda nokubonisa (calula) izinto ngongophawu oluye
Ukusebenza ngolwazi oluqokelelweyo.		

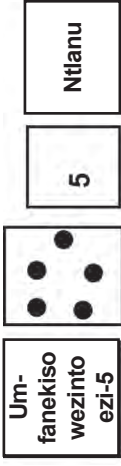
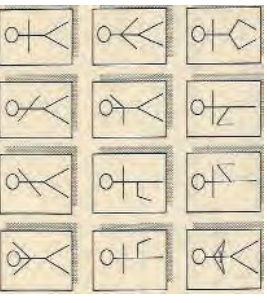
IKOTA YESI- 3 IMATHEMATIKA ISIGABA SABAQALAYO			
Iveki yama - 21	Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokelwe yititsihala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)	Izixhobo zokufundisaekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
Isihloko	Amanqaku angcaciso		
1.1 Ukubala izinto	<ul style="list-style-type: none"> Fundisa intsingiselo yenani 5 <p>Ngomlomo: Bala izinto zemihla ngemihla ukuya ku -5. Bala ukuya phambili nokuya emva ukuya ku -5. Bala ngentloko ngokungenantsingiselo 1-10</p> <p>Bethelela ukubala ngolandlelwano: Utitsihala ubala izinto ezi- 3 ngokulandelelana. Khomba kwizinto nganye ubala eyokuqala, eyesibini, eyesithathu.</p> <p>Bethelela isigama “ninzi” no”mbalwa”. Qhwabani izandla kaninzi.....YIMA Qhwaba izandla kambalwa. Utitsihala uqhweba izandla ka- 5. Buza inani eliqhwaywe kaninzi okanye kambalwa</p> <p>Ukufunda usebenzisa intshukumo yomzimba Khuthaza abafundi ukufumana inani -5 ngoku: - Qhwaba izandla ka -5. - Fumana ukuba bangaphi abafundi eklasini abane minyaka e -5.</p>	lingoma zamanani nezicengcelelzo Ukubala imvano-siphelo neengoma, umzekelo, "imfenana ezintathu zixhumaxhuma phezu kwebhedri". Izinto ezi-3	usuku olu- 1

Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokhelwe yititshala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Iveki yama - 21	Amanqaku angcaciso	Izixhobo zokufundisa ekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>Isihloko</p> <p>1.16</p> <p>Izibalo zentloko</p>	<p>Ukubala ngentloko</p> <ul style="list-style-type: none"> - Utitshala uqhweba izandla zakhe ngesingqi engangxamanga kahlanu ukubonisa inani -5. Abafundi mabakhuphe inani lezinto zokubala ezi - 5 bazibonise. - Abafundi bapakisha izinto zokubala ezi- 5 ngokulandelelanayo bazibale. - Utitshala uyabuza: - Leliphi inani eliza phambi kwenani -5? - Leliphi eliza emva ko-4, njalo njalo? - Xa unee- apile ezi-5 waphisa ngezi -2, zingaphi ezishiyekileyo? - Bonisa ngeminwe. - Uneenzwane ezingaphi kunyawo olu-1? <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi bakha ulwazi lwamanani ngo:</p> <ul style="list-style-type: none"> - Kwakha inani -5 besebenzisa udongwe lokudlala. - Chola amagqabi a-5. - Bala izinto bezitshatisa nezinto zokubala. - Yakha uqwalaselo lokulondoloza amanani ngokuthi abafundi maba - Pakishe izinto zokubala ezi- 5 okanye ezinye izinto ngeendlela ezahlukileyo, umzekelo,  <p>Xa kubalwa inani lezinto alichatshazelwa bubukhulu balo, okanye indawo, okanye luhlobo olunye, umzekelo,</p> <ul style="list-style-type: none"> - Cwangcisa amaqhosha a-5, ipensile ezi-5, iihula-hupu ezi-5, abafundi aba-5, njalo njalo. - Zibale ngendlela eyahlukileyo, umzekelo, zibale zisasazekile, zidibene, zisemgweni okanye zipakishiwe 	<p>Izikhongozeli ezinezinto zokubala</p> <p>Udongwe okanye udongwe lokudlala Amagqabi</p>	<p>usuku olu- 1</p>

Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokelwe yititshala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)	Ixesha elisondeleyo
Ixesha lokufundisa elicetyisiweyo: Izixhobo zokufundisa ekucetyisweni	Ixesha elisondeleyo
<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> Khulisa ukukhumbula uze ukhuthaze abafundi ukukhumbula ngentloko amanani ezindlu, iidilesi neenombolo zefowuni. Dlala imidlalo enje ngale ilandelayo: <ul style="list-style-type: none"> Utitshala ubiza inani lendlu, idilesi okanye inombolo yefowuni yomfundi. Umfundi elilelakhe inani lendlu okanye idilesi kufuneka aphendule. Xa utitshala esenza irejista yabafundi abakhoyo makabuze imibuzo efana nale: “ingaba umfundi oneli nani lefowuni ukhona namhlanje: 435-6256?” “ingaba umfundi ohlala eMandela Drive 123 ukhona namhlanje?” Abafundi basebenzisa oonotsheluzi beesimboli zamanani ukupakisha amanani abo ezindlu okanye awefowuni ngokulandelelana nokuba ayichanekanga. Linganisa iincoko kwifowuni yokudlala. Abafundi bafowunela umntu obalulekileyo. Nxulumanisa nobuchule bokwenza (idrama) kwiZakhono zoBomi 	<p>usuku olu- 1</p> <p>ifowuni makube yeyomzali yaye isenokuba yinombolo yecell phone Irejista yobukho . Unotsheluzi weesimboli zamanani okanye iisimboli zamanani ezinkulu ezenziwe ngekhadibhodi.</p> <p>ifowuni yokudlala</p>
<p>Ukusebenzisa iimilo enokwakheka kuka 2-D/imifanekiso</p> <p>Utitshala ubonisa abafundi:</p> <ul style="list-style-type: none"> Iindidi zemidiya apho kufumaneka inani -5, umzekelo, oonotsheluzi beentsuku zokuzalwa, amaphepha –ndaba, iimagazini, iiflaya, umzekelo, njalo njalo. Unotsheluzi onamachaphaza ama -5 nonotsheluzi wemifanekiso emi-5. Abafundi mabahlanganise unotsheluzi wemifanekiso nowamachaphaza ngamanani alinganayo ezibali okanye izinto. Yakha iiphazili zamanani ezinenani -5, umzekelo 	<p>Amakhadi eentsuku zokuzalwa Amaphephandaba, iimagazini Oonotsheluzi abanamachaphaza ama-5 Oonotsheluzi abanemifanekiso emi- 5 ezinto Izinto zokubala</p> 

Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokhelwe yititsihala (isanqa) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Iveki yama - 21	Amanqaku angcaciso	Izixhobo zokufundisaekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>Isihloko</p> <p>1.3 Iisimbolo zamanani kunye namagama amanani</p>	<p>Amanqaku angcaciso</p> <p>• Zazi iisimboli zamanani namagama amanani eziquka inani -5</p> <p>Ngomlomo: Bala ukuya phambili nokubuya umva ukuya ku-5 Ukubala ngentloko ngokungenantsingiselo 1-10</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Iklasi yonke mayihlale kwisangqa. - Nombola abafundi ngokwepateni. 1, 2, 3, 4, 5 1, 2, 3, 4, 5 - 1, 2, 3, 4, 5 . - Buza imibuzo enje ngale; “ ngubani ozakuba yinombolo-5 elandelayo ? “ ngubani ozakuba yinombolo-4 elandelayo? - Uyisombulule njani le ngxaki? - (Abafundi basombulula ingxaki ngendlela yokucingela inani elilandelayo ngokuqhubeka ngokubala) 	<p>lingoma zamanani neemvano-siphelo</p>	<p>Usuku olu- 1</p>
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Sebenzisa amakhadi amanani aviwa ngesandla (tactile number cards) eziquka amanani 1-5. - Abafundi bavala amehlo beve inani- 5 ngokusebenzisa iminwe kwiisimboli zamanani. <p>Nika abafundi izinto zokubala ezi-5 umfundi ngamnye neekomityi ezimbini okanye izikhongozeli ezibini zamaqanda.</p> <ul style="list-style-type: none"> - Buza abafundi: “ ungazicwangcisa njani ezi zinto zokubala kwizikhongozeli ezibini? 	<p>Amakhadi amanani aviwa ngesandla (Tactile number cards) ngenani -5</p>	

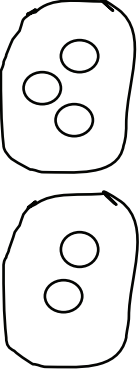


Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokhelwe yitshala (isanqa) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Isihloko	Amanqaku angcaciso	Izixhobo zokufundisaekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
	<p>Ukusebenzisa iimilo okanye imifanekiso enokwakheka kuka 2-D</p> <p>Yenza abafundi ba:</p> <ul style="list-style-type: none"> - Chonga oonotsheluzi abanemifanekiso emi-5 . - Chonga oonotsheluzi abanamachaphaza ama-5. - Chonga isimboli -5 apho ibonakala khona eklasini. - Chonga isimboli yenani kunotsheluzi. <p>Nakana igama lenani kunotsheluzi.</p> <ul style="list-style-type: none"> - Hlanganisa inani lesibali negama lenani nesimboli yenani ngokupakisha into yokubala kunotsheluzi ngamnye womfanekiso nowamachaphaza . 	<p>Oonotsheluzi bemifanekiso, amachaphaza, iisimboli zamanani nezamagama amanani</p> <p>Izibali ezi-5</p> 	
<p>3.4</p> <p>Ulingano-macala</p>	<ul style="list-style-type: none"> • Ukubethelela umgca wolingano- macala kuye ngokwenza izinto ezikhuthazela ukuwelwa kumgca ophakathi <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Dlala umdlalo wokulandela inkokheli apho abafundi balinganisa ubume kwitshati. - Dlala umdlalo wokulandela inkokheli apho utitshala abonisa ubume nabafundi bamlinganise. (iuka ukuwela umgca ophakathi, umzekelo, phatha idolo lasekhohlo ngesandla sasekunene) - Dlala umdlalo wokulandela inkokheli apho umfundi abonisa ubume abanye bamlinganise. - Utitshala ubonisa ukutsiba-tsiba nabafundi bakhuthazwe ukulinganisa utitshala. <p>Ukusebenzisa zinto eziphathakayo ezinokwakheka kuka 3-D</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Beke ibhinbhegi ekhohlo, ekunene, ngaphambili nangasemva komzimba. - Sebenzise isandla sasekhohlo ubeke ibhinbhegi ngasekunene komzimba wakhe. - Zolule ukwela umgca ophakathi. - Phinda enze ngesandla sasekunene. <p>Nxulumanisa nemiThambo kwiZakhono zoBomi</p>		<p>Usuku olu- 1</p> <p>Emva koko, ngokuqhubekayo ngexesha lokudlala nangexesha lemisebenzi yokukhulisa umzimba</p>




























Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokelwe yititshala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Iveki yama - 21	Amanqaku angcaciso	Izixhobo zokufundisaekucetyiswa ukuba zisetyenziswe	Ixesha elisondeleyo
<p>Isihloko</p> <p>4.2</p> <p>Ubude</p>	<p>Amanqaku angcaciso</p> <p>• Qikelela ulinganise ubude bezinto ezahlukileyo usebetyenzisa iinyawo, izandla, umtya, amakhuni, nji njl.</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Thelekise ubude beenyawo nezandla zabo . - Abafundi mabaqikelele yeyiphi izinto ende yeyiphi emfutshane ngokulinganisa iinyawo okanye izandla zabo,umzekelo, itafile okanye isijungqe sethumbu lasekhaya. - Qikelele ukuba yeyiphi into ende kakhulu okanye emfutshane kakhulu, umzekelo, indlela yeenyawo okanye umgca wezitenena. - Abafundi mabaqikelele ukuba yeyiphi ende kunenye, umzekelo, iklasi okanye igumbi lootitshala. - Buza imbuzo enje nge: “yeyiphi endana/ende kakhulu, ipensile okanye umtya? 	<p>Izixhobo zokufundisaekucetyiswa ukuba zisetyenziswe</p> <p>Izinto ezinobude obuhlukeneyo ezinokulinganiswa ngesandla okanye ngeenyawo,umzekelo, irula, itafile, ucango, izitena, ipali yeempondozebhola, iklasi, ilayibhrari, nji. njl.</p>	<p>Ixesha elisondeleyo</p> <p>Usuku olu- 1</p>

Ixesha lokufundisa elicetyisiweyo Iplani enye yomsebenzi weklasi okhokelwe yititshala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Iveki yama- 22	Amangqaku angangcaciso	Izixhobo ezicetyisiweyo	Ixesha elisondeleleyo
Isihloko			
1.1 Bala izinto	<p>Amangqaku angangcaciso</p> <ul style="list-style-type: none"> Ukubethelela ulwazi olufumanekayo oluquka inana u- 5 <p>Ngomlomo: Bala izinto zemihla ngemihla ukuya ku -5 Bala ukuya phambili nokubuya umva ukuya ku -5 Ukubala ngentloko okungenantsingiselo 1-10</p> <p>Bethelela isigama “nizizi” no “mbalwa ”. Qhwaba izandla amatyeli amaninzi.....YIMA. Qhwaba izandla kambalwa. Utitshala uqhwaba kahlanu Buza umbuzo:” Leliphi inani elibe lininzi/elibe mbalwa lokuqhwaba?”</p> <p>Ukufunda usebenzisa intshukumo yomzimba Khuthaza abafundi ukufumana inani -5 ngoku:</p> <ul style="list-style-type: none"> - Bonisa iminwe emihlanu emoyeni. - Fumana izinto ezi-5 ezibomvu, bhlowu, mthubi, luhlaza. - Fumana izinto ezi -5 ezibonakala okwesangqa, isikwere, unxantathu. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Abafundi mabakhe ulwazi lwamanani ngoku:</p> <ul style="list-style-type: none"> - Landa iincwadi ezi-5 kwikona yeencwadi - Ukwakha iincochoyi ngeebhloko ezi-5. 	<p>lingoma zamanani nezicengcelezo umzekelo,</p> <p>Izicengcelezo neengoma zokubala “1,2,3,4,5”</p> <p>Izinto zokubala</p> <p>Iincwadi Ibhoko zokwakha okanye iityhubhu zeyunifekisi (unifix tubes)</p>	usuku olu- 1

Ivekhi yama- 22	Ixesha lokufundisa elicetyisiweyo Iplani enye yomsebenzi weklasi okhokelwe yititsihala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)		
Isihloko	Amangqaku angangcaciso	Izixhobo ezicetyisiweyo	Ixesha elisondeleyo
<p>1.7 Ukudibanisa nokuthabatha</p>	<p>Amangqaku angangcaciso</p> <ul style="list-style-type: none"> • Ukusombulula iingxaki zezibalo ngomlomo (izibalo zamazwi)nokucacisa izisombululo kwiingxaki eziquka inani -5 <p>Ukufunda usebenzisa intshukumo yomzimba:</p> <ul style="list-style-type: none"> - Bizela abafundi aba-5 ngaphambili. - Yabela abafundi aba-5 izitulo ezi-5 ngokulinganayo. - Thatha isitulo esinye. Yaba izitulo ezishiyekileyo kubafundi abahlanu. Umfundi omnye ushiyeka engena situlo. - Qala ku-5. Bala ubuya umva. Qala ku -3. Balela ku -5. Qala ku-1. Balela ku-4 , njl njl. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. Bonisa umnwe omnye kwisandla esinye neminwe e-4 kwesinye isandla. Yiminwe emingaphi xa iphelele? 2. USandla unamaqebengwane ama- 4. UMpho umnika eli-1 kwakhona.USandla unamaqebengwane amangaphi xa ewonke? 3. UTini unamatye ama -5 wawanika uMiya onke. UMiya unamatye amangaphi ? 4. UJama uneemabhule ezi- 5 walahla ezi- 2. Ushiyeke neemabhule ezingaphi? 5. Ikati enye ineendlebe ezimbini. Iikati ezimbini zineendlebe ezingaphi? 6. Ingoma, “Amahotyazana mahlanu emthini ” (cacisa ukuba amahobe ayehla ngenani). 	<p>Izinto zokubala Iimabhule (marbles) Ingoma</p>	<p>usuku olu- 1</p>

Ixeshha lokufundisa elicetyisiweyo Iplani enye yomsebenzi weklasi okhokelwe yititshala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Ivekhi yama- 22	Amangaku angangcaciso	Izixhobo ezicetyisiweyo	Ixeshha elisondeleyo
<p>Isihloko</p> <p>1.4</p> <p>Chaza, uthelekise uze ulandelelanise amanani</p>	<p>Thelekisa ukuba yeyiphi ingqokelela yezinto ezinikiweyo ezininzi kune, ezimbalwa kune, ezilinganayo ukuya ku-5</p> <p>Ngomlomo: Bala izinto zemihla ngemihla ukuya ku-5</p> <p>Bala ukuya phambili, ubale ubuya umva ukuya ku- 5</p> <p>Bala ngentloko okungenantsingiselo 1-10</p> <p>Bethelela isigama “ninzi” no-“mbalwa ”.</p> <p>Qhwaba izandla amatyeli amaninzi..... YIMA.</p> <p>Qhwaba izandla kambalwa. Utitshala uqhweba kahlanu</p> <p>Buza umbuzo:” Leliphi inani elibe lininzi/elibe mbalwa lokuqhweba?”</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala ubeka izinto ezininzi phezu kwetafile, umzekelo, ziimagi ezi-2, iibhloko ezi-5 ezifanayo, izikhongozeli ezi-4, iincwadi ezi -2. <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Bala inani leemagi nezikhongozeli. Ziimagi okanye zizikhongozeli ezininzi? - Bala inani leebhloko neleencwadi. Zimbalwa iibhoko kuneencwadi? Zininzi iibhoko kunencwadi? - Bala iincwadi neemagi. Ziyalingana izinto okanye hayi? <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Abafundi bahlala ekhaphethini benze inesi ezimbini ngewulu. - Utitshala unika umyalelo, umzekelo, abafundi bafake izinto zokubala ezibini kwenye inesi, baphinde bafake ezintathu kwenye. Yeyiphi inesi enezininzi? Yeyiphi enezimbalwa? - Utitshala ubizela abafundi aba-5 phambi kweklasi. Ufaka inani elahlukileyo lamaso ezandleni zomfundi ngamnye. - Sesiphi isandla esinamaso amaninzi? - Sesiphi isandla esinamaso ambalwa? <p>Izinto ezikwimilo enokwakheka kuka 2-D/imifanekiso</p> <ul style="list-style-type: none"> - Utitshala ubonisa amakhadi amabini amanani ahlukileyo amachaphaza nemifanekiso. - Abafundi bathelekisa amakhadi anemifanekiso namachaphaza achonge ukuba nkulu kune, mbalwa kune nokulingana. 	<p>lingoma zamanani nemvano-siphelo</p> <p>Imagi ezi-2, iibhloko ezifanayo ezi-5, izikhonkozeli ezi-4, iincwadi ezi-2.</p> <p>Izijingqe ezibini zewulu zomfundi ngamnye</p> <p>Izinto zokubala ezi-6 zomfundi ngamnye</p>  <p>Amaso</p> <p>Oonotsheluzi bemifanekiso nabamachaphaza abaquka amanani 1 - 5</p>	<p>Usuku olu- 1</p>

Ixesha lokufundisa elicetyisiweyo Iplani enye yomsebenzi weklasi okhokelwe yititshala (Isanqa) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Iveki yama- 22	Amangqaku angangcaciso	Izixhobo ezicetyisiweyo	Ixesha elisondeleyo
Isihloko			Usuku olu- 1
2.1 Iipateni zejijometri	<p>Amangqaku angangcaciso</p> <ul style="list-style-type: none"> Bethelela ukukhuphela ipateni enikiweyo Ukufunda usebenzisa intshukumo yomzimba <ul style="list-style-type: none"> - Ukusebenza ngamaqela bakhuphele ipateni enikiweyo, umzekelo, umfundi, isitulo, umfundi, isitulo. - Abafundi ababini, isitulo esinye, abafundi ababini, isitulo esinye. - Ngqisha ngonyawo olunye, ngqisha ngolunye unyawo, xhuma-xhumela phambili, xhuma-xhumela emva <p>Ukusebenzisa izinto eziphathekayo ezinokwakhaka kuka 3-D</p> <ul style="list-style-type: none"> - Utitshala uyila ipateni esebenzisa izinto zokubala neziciko zeebhotile, umzekelo, isibali, isibali, isiciko sebhotele, isibali, isibali, isiciko sebhotele. Abafundi bakhuphela ipateni. - Hamba kancinci, kancinci, msinya, msinya. (utitshala uthetha ehamba) Abafundi bakhuphela ipateni. <p>Ukusebenzisa iimilo enokwakhaka kuka 2-D/imifanekiso</p> <ul style="list-style-type: none"> - Yohlula abafundi kumaqela amahlanu. Nika iqela ngalinye imifanekiso yokwenza ipateni. - Abafundi bayila iipateni zabo zemifanekiso usebenzisa imifanekiso enikiweyo, umzekelo, <ul style="list-style-type: none"> o lorenji iapile, iapile, iorenji o Ibhathane, ibhathane, inyozi, inyozi. <p>Lo msebenzi unganxulumaniswa noBugcisa bokubonwayo kwiZakhono zoBomi</p>	<p>Abafundi Izitulo</p> <p>Izinto zokubala Iziciko zeebhotile</p> <p>Imifanekiso nayiphi efumanekayo, umzekelo, iintengiso. Phinda phinda imifanekiso ukuqinisekisa ukuba zanele.</p>	

Iveki yama- 22 Ixesha lokufundisa elicetyisiweyo Iplani enye yomsebenzi weklasi okhokelwe yititshala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)	Amangaku angangcaciso	Izixhobo ezicetyisiweyo	Ixesha elisondeleyo									
<p>Isihloko</p> <p>3.3 Iimilo ezinokwakheka kuka 2-D</p>	<p>Qwalasela, chonga uxele iimilo ezinokwakheka kuka 2-D eklasini nasemifanekisweni.</p> <ul style="list-style-type: none"> Bethelela ulwazi olufunyenwe kwiveki yesi-6 euka isikwere Nxulumanisa neMithambo kwiZakhono zoBomi <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Zoba isikwere phantsi uvumele abafundi batsiba-tsibe kuso. Abafundi mabathi: “ nditsiba-tsiba eskerini – icala elinye, amacala amabini, amacala amathathu, amacala amane, onke amacala ayafana ” - Abafundi mabalale engceni/ ekhaphethini intloko yomnye ibe sezinyaweni zomnye benze isikwere. - Amaqela abafundi mabalale ekhaphethini ukwenza izikwere ezincinci. <p>Ukusebenzisa izinto ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Utitshala uzoba igradi phantsi. - Vaka imilo yokwenyani, umzekelo, iimilo zeLogi, okanye imifanekiso yemilo kwibhoko nganye. - Utitshala ubiza imilo. - Abafundi balahlela ibhimbhegi phakathi kwebhoko ehambelana nemilo ebiziweyo . <p>Ukusebenzisa iimilo okanye imifanekiso enokwakheka kuka- 2-D</p> <p>Abafundi mabahlulahlule indidi zezikwere ezilungiswe ngutitshala ngobukhulu nangemibala.</p> <ul style="list-style-type: none"> - Abafundi maba: - Chonge izikwere ngobukhulu bazo ngokuchaza izikwere ezikhulu, ezincinci neziphakathi. - Chonge imibala yeendidi zezikwere . <p>Hlela izinto ngokwemilo, ubungakanani nombala</p> <ul style="list-style-type: none"> • Hlela iindidi zezinto ngokombala nangemilo 	<p>isikwere emgangathweni/phantsi</p> <table border="1"> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>										<p>Usuku olu- 1</p> <p>Ibhimbhegi</p> <p>Iikhadibhodi ezimbini zezikwere esinye sibhlowu esinye siluhlaza.</p> <p>Ikhadibhodi eziphakathi ngokobungakanani zezikwere ezi-2 esinye sibhlowu esinye siluhlaza.</p> <p>Iikhadibhodi ezincinci kakhulu zezikwere ezi-2 esinye sibhlowu esinye siluhlaza.</p>
												
												
												

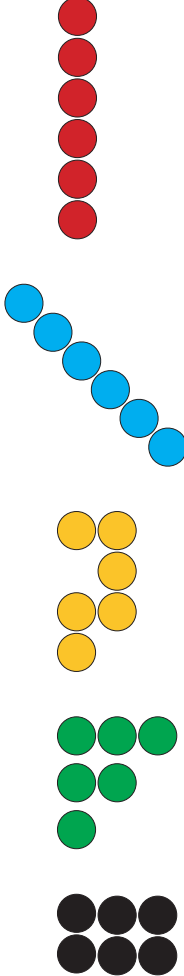
Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokelwe yititshala (isanqa) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Iveki yama- 23	Amangqaku angangcaciso	Izixhobo ezicetyisiweyo	Ixesha elisondeleleyo
<p>Isihloko</p> <p>1.1 Bala izinto</p>	<p>• Ukubethelela ulwazi abalufumanekayo olubandakanya amanani u-1 ukuya kwi -5</p> <p>Ngomlomo: Bala izinto zemihla ngemihla ukuya ku -5 Bala ukuya phambili, ukubala ubuya umva ukuya ku -5 Bala ngentloko okungenantsingiselo 1-10</p> <p>Bethelela isigama “ninzi” no “mbalwa”. Qhwaba izandla amatyeli amaninzi.....YIMA. Qhwaba izandla kambalwa. Utitshala uqhwaba ka- 5 Buza umbuzo:” Leliphi inani elibe lininzi/elibe mbalwa lokuqhwaba?”</p> <p>Ukufunda usebenzisa intshukumo yomzimba Abafundi maba:</p> <ul style="list-style-type: none"> - Utitshala udlala igubu . - Abafundi bayahambahamba. - Xa igubu liyeka ukubetha, utitshala ukhwaza inani eliphakathi kuka- 1 no- 5. - Abafundi bazicwangcisa ngokwamaqelana, umzekelo, utitshala ukhwaza inani -3 abafundi bazicwangcise kumaqela esi-3. <p>Sebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Utitshala ubeka izinto phezu kwetafle ziyimfumba. Abafundi mabaqikelele ukuba zingaphi izinto ezikwimfumba. - Mabazibale emva koko. 	<p>lingoma zamanani nezicengcelezo</p> <p>Igubu</p>	<p>usuku olu- 1</p> <p>Khetha imisebenzi embalwa</p>



Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokelwe yititshala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)									
Iveki yama- 23	Amangaku angangcaciso	Izixhobo ezicetyisiweyo	Ixesha elisondeleyo						
<p>Isihloko</p> <p>1.6</p> <p>Ubuchule bokusombula iingxaki zezibalo</p>	<p>Masidlale:</p> <p>Utitshala uyila ileli yamanani phantsi. Inani eliselelini limela inani lendlu umfundi ahlala kuyo.</p> <p>Utitshala ukhetha abafundi abasebenzisa imvano-siphelo wanika umyalelo:</p> <ul style="list-style-type: none"> - Qala eqandeni. Cacisa ukuba iqanda lithetha ukuba “akukho nto” yaye ukubala kuqala ku -1 . - Bala ngeli xesha uhambayo. - Utitshala uthi kumfundi: “ ukwindlu yesi-2, yeyiphi indlu elandela indlu yesi-2?” - Imiyalelo egqithayo ingathi: “ yiya kwindlu yesi-3. Buyela emva kwindlu yesibini. Yiya phambili kwindlu yesi-4. - Utitshala uthi: “ ndikwindlu yesi- 3, yeyiphi elandelayo?” - Yiya kwindlu yesi- 4. Hambisa inani elinye phambili. Hambisa amanani amabini emva. - Yima phambi kwindlu yesithathu neyesi-5. 	<table border="1"> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> </tr> </table> <p>Isicengelezo sokubala: 1, 2, 3, 4, 5, Xa ndibambise intlanzi 6, 7, 8, 9, 10 Ndayikhulula kwakhona</p>	0	1	2	3	4	5	
0	1	2	3	4	5				
<p>1.4</p> <p>Chaza, thelekisa uze ulandelelanise amanani</p>	<ul style="list-style-type: none"> • Sebenzisa inani -5 kwimeko eqhelekileyo <p>Ukuphuhlisa inkumbulo, khuthaza abafundi uku:</p> <ul style="list-style-type: none"> - Khumbula ifowuni zikamama nootata babo. - Khumbula idilesi zamakhaya abo. - Ifowuni maziphindaphindwe ngexesha lerejista yobukho yemihla ngemihla. 	<p>Ifowuni kamama okanye ekatata nedilesi yasekhaya</p>	<p>Usuku olu- 1</p>						
<p>3.2</p> <p>Izinto ezinokwakhaka kuka -3-D</p>	<ul style="list-style-type: none"> • Yakha izinto ezikwakhaka kuka 3-D kuseyenziswa imatheryali ephathekayo <ul style="list-style-type: none"> - Abafundi basebenzisa umzekelo katitshala. Utitshala unika imiyalelo elandelayo: - Yakha incochoyi elingana neyam ngokuphakama. - Yakha incochoyi engaphantsi kweyam. - Yakha incochoyi ephakame kweyam. - Abafundi mabakhe esabo isakhiwo ngokukopa kumzekelo onikiweyo. 	<p>Ibhloko ezakhayo/ libhloko zeLego Nasiphina isixhobo sokwakhaka</p>	<p>Usuku olu- 1 Iyaqhubeka</p>						

Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokelwe yititsihala (isanga) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Iveki yama- 23	Amangqaku angangcaciso	Izixhobo ezicetyisiweyo	Ixesha elisondeleyo
Isihloko 3.1 Indawo-bume ukufumana indawo nembonakalo	<p>Ukulandela izalathiso ukuhamba okanye ukuzibeka kwisithuba esithile</p> <ul style="list-style-type: none"> • Phuhlisa ulwazi lwezalathiso ngokufundisa isigama “phambili” “nasemva” <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Njengentshayeleyo, bethela ulwazi olufunyenweyo kwiiveki ezisibhozo. 		Usuku olu- 1
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Zoba isangqa esikhulu, unxantathu okanye isikwere ephetshaneni ulibeke phantsi. - Abafundi maba: - Qhuba imoto yokudlala kwimigca yesikwere abafundi baxele icala eya ngakulo imoto (phambili nasemva, ukhohlo nasekunene usebenzisa ingalo ukubonisa ukhohlo nokunene) 	<p>Imilo emikhulu ezotywe ephetshaneni</p> <p>Imoto yokudlala</p>	
	<p>Imilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Abafundi mabaqhele isigama Sika- phambili nesika- emva ngokubonisa amacala emifanekisweni, umzekelo, icala imoto eya ngakulo, icala umntu ahambela ngakulo. 	<p>Imifanekiso ebonisa amacala ngokucacileyo, umzekelo, icala imoto eya ngakulo, icala umntu ahambela ngakulo.</p>	

Ixesha lokufundisa elicetyisiweyo: Iplani enye yomsebenzi weklasi okhokelwe yititshala (isanqa) ye ± 30 imizuzu ngosuku (± 5 imisebenzi yeMathematika ngeveki)			
Iveki yama- 23	Amangaku angangcaciso	Izixhobo ezicetyisiweyo	Ixesha elisondeleyo
<p>Isihloko</p> <p>4.2</p> <p>Ubude</p>	<p>Ukuthlekisa nokulandelelanisa izinto eziphathekayo esebenzisa isigama esifanelekileyo ukuchaza ubude</p> <ul style="list-style-type: none"> • Ukuqikelela ubude bezinto ezahlukileyo <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Abafundi bazicwangcisa ngobude ukusuka komfutshane ukuya komde. Thelekisa ubude babo nabanye abafundi. - Dlala umdlalo wokulandela inkokheli. Oyena mde wenza isenzo abanye bamlinganise bengasemva kwakhe. Jika umgca ukuze omfutshane ibe nguye ongaphambili. - Abafundi mabathelekise izandla neenyawo zabo ukuze babone ukuba zezoobani ezinde kakhulu nezimfutshane kakhulu. <p>Qikelela uthathe umlinganiselo:</p> <ul style="list-style-type: none"> - Abafundi baqikelela izinto- ende kwemfutshane, umzekelo, ubude betafle okanye isijungqe somtya. - Qikelela izinto - ende nemfutshane,umzekelo, ipensile, ikhrayoni . - Abafundi mabathelekelele, yeyiphi into enokuba nde kwenye, umzekelo, imicinga emibini edityanisiwe ngobude okanye ikliphu zemali ezintathu ezidityanisiweyo. - Buza le mibuzo: “ yeyiphi endana/ende, ipensile okanye isijungqe somtya? ” njl njl. - Sesiphi isitulo esikude kakhulu ukusuka edesikeni katitshala ? - Zingaphi ipensile ezinokungena kwicala elide ledesika katitshala ? - Mangaphi amanyathelo owathathayo ukuya emnyango ? - Zingaphi ibhokisi zematshisi ezinesanti ezinokungena kule bhokisi? - Zingaphi iikomityi zamaqanda ezinamanzi ezinokuzalisa le glasi? - Naba abafundi abathathu nezitulo ezine. - Zingaphi izitulo esizidingayo? 	<p>Izinto zobude obahlukeneyo njenge: Ipensile, ikhrayoni, izijungqe zomtya (omnye ube usongiwe), itafle, iincwadi, imicinga, Ipaperclips (ezisongiweyo, ezivuliweyo nezijijeneyo)njl njl.</p>	<p>i intsuku ezi- 2</p> <p>okanye</p> <p>khetha kuphela imisetyenzana embalwa</p>

Iveki yama- 24	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa
<p>1.1</p> <p>Bala izinto</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Fundisa intsingiselo yenani u- 6 <p>Ngomolomo: Bala izinto zangemihla ngemihla uye kuma ku- 6. Bala usiya phambili ubale ubuya umva uyokuma ku-6. Ukubala ngentloko ngokungenantsingiselo 1-10</p> <p>Ukubethelela indawo yenani/into kwiseti: ootitshala bapakisha izinto ezi- 3 emgceni. Khomba kwinto nganye eli xa ubalayo ;<i>eyokuqala, eyesibini, eyesithathu</i></p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawu” Qhwaba kaninzi... YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma ku- 6 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p> <p>Ukufunda usebenzisa intshukumo yomzimba Abafundi maba:</p> <ul style="list-style-type: none"> - Bala ukuya ku-6 logama unyuka amanqanqwa. - Bala ubuya umva logama usihla usihla ngamanqanqwa - Zoba u -6 esantini uze uhambe/ uxhume/utsibe ngomlenze omnye ecaleni kwayo. - Qhwaba izandla ka- 6. - Nakana amanani -1 uye ku- 6 usebenzisa iisimboli zamanani amakhulu. - Makapakishe inombolo yendlu yakowabo okanye inombolo yemfono -mfono esebenzisa amakhadi eenombolo amakhulu. 	<p>Ixesha elithelelelwayo</p> <p>Usuku olu-1</p> <p>Amaculo nezicengelezo zamanani.</p> <p>Zenzele awakho amakhadi amakhulu eesimboli zamanani, abafundi abakwazi ukuwabamba. Banokufunda iminyaka yabo, iifethi/ inombolo zasemakhayeni abo/ inombolo zemfono- mfono/ inombolo zoonomyayi zabazali babo, nezinye.</p> <p>Le seti inye ingaphinda isetyenziswe ukukhangela amanani bawapakishe ngokulandelelana kwawo.</p>


Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Iveki yama- 24	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>Isihloko</p> <p>1.1</p> <p>Bala izinto</p>	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Bala izinto eklasini. Abafundi mabenze ezi zinto zilandelayo:</p> <p>Buza imibuzo enje ngale:</p> <ul style="list-style-type: none"> - Leliphi inani eliza emva ko- 3, leliphi inani eliza emva ko -5, njl.?" - Utitshala upakisha izinto phezu kwetafle. Abafundi mabaqikelele ukuba zingaphi ezi zinto bazibonayo. Mabazibale emveni koko. - Phuhlisa ulwazi lwamanani ngokwenzisa abafundi ukuba bapakishe izinto zokubala(iikhawuntara) okanye izinto ngeendlela ezahlukeneyo, umzekelo 	<p>Izinto ezise klasini nakummandla osingqongileyo.</p> <p>Sebenzisa izixhobo ezahlukeneyo ezikunika iintlobo ezahlukeneyo ukufundisa izicwangciso- qhinga.</p>	<p>Usuku olu-1</p>
			
	<p>Xa sibala, inani lezinto azichaphazeli ubungakanani okanye indawo ezikuyo okanye ziyafana. imizekelo:</p> <ul style="list-style-type: none"> - lungelelanisa amaqhoshha ama -6, iipensile ezi -6,iihupu ezi- 6, abafundi aba- 6 njl. Njl. - zibale ngeendlela ezahlukeneyo, imizekelo, zibale uzisakazile, zigcine zidibene, zisemgceni okanye zicukene. <p>Yohlula abafundi ngabathandathu,banike iibhloko zokwakha ezi- 6.</p> <p>Amaqela maba:</p> <ul style="list-style-type: none"> - bale iibhloko zabo - khe ithawa ngeebhloko ezi- 6, bakhuthaze abafundi ukuba babale iibhloko xa besakha ithawa. - Utitshala uyazula zula eleyibhelisha ithawa zabafundi ngamakhadi amanani. Abafundi babala iibhloko. Maba phinda phinde ukubala. - Khetha umfundi aphose idayisi. Qinisekisa ukuba abafundi bayalibona bonke idayisi. Abafundi mababale amachokoza bakhombe kwithawa ehambelana namachokoza. 	<p>Ibhloko zokwakha ezi- 6 kumfundi nganye.</p>	

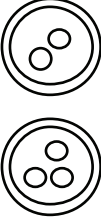

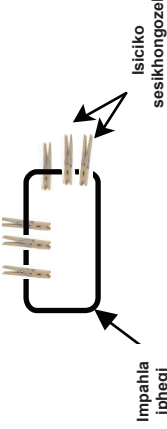
Ivekhi yama- 24	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>1.3 Iisimboli zamanani namagama amanani</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Yazi iisimboli zamanani uze unakane amagama amanani abandakanya isi-6. <p>Ngomlomo: Bala izinto zemihla ngemihla uye kuma ku-- 6. Bala usiya phambili, ubale ubuye umva uyokuma ku- 6. Bethelela u “ zininzi/ zimbaliwa”. Qhwaba izandla kaninzi ... YIMA. Qhwaba izandla amaxesha ambalwa. . Utitshala uqhwaba izandla aye kuma ku- 6 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i> Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Zoba inani u -6 emhlabeni/ emgangathweni uze uyalele abafundi ukuba bahambe ecaleni kwamanani. - Zoba inani u -6 esantini nasemoyeni. - Bumba inani u-6 ngodongwe. - Abafundi mabaqashela ukuba Bangaphi abafundi abafunekayo ukwenza inani u -6 besebenzisa imizimba yabo.Mabakhe inani u- 6 ngemizimba yabo. <p>Ukusebenzisa izinto ezipathekayo ezinokwakheka kuka- 3-D</p> <ul style="list-style-type: none"> - Beka induli yezinto etafileni. Dlala ngamanani aphakathi ko- 1 uye ku- 6. - Abafundi mabaqikelele ukuba zingaphi izinto abazibonayo. - Bala izinto. 	<p>lingoma nezicengecelezo zamanani.</p> <p>Izinto eziyi -6.</p> <p>Yenza imifanekiso ufakele amachokoza kumakhadi anenani u - imizekelo ;</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Umfanekiso wezinto ezi-6  </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Izinga zokubala okanye izinto ezinokwakheka kuka 3-D  </div> </div>	<p>Usuku 1</p>

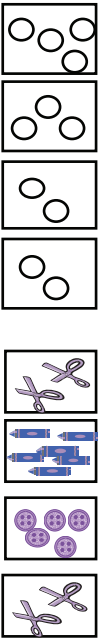
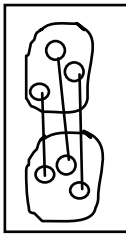
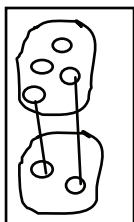

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Iveki yama- 24	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
Isihloko 1.13 Ukudibanisa nokuthabatha	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> Sombulula iingxaki zokudibanisa nokuthabatha ngomlomo ezineempendulo ukuya ku -6 . <p>Ngomlomo: Bala izinto zemihla ngemihla uyo kuma ku- 6. Bala usiya phambili, ubale ubuya umva uyokuma ku -6. Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu// kancinci?</i></p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Imizekelo</p> <ol style="list-style-type: none"> Utitshala ubiza abafundi abathathu ngaphambili. Abafundi mabababale.Utitshala ubiza abanye ababini abuze: Bangaphi abafundi bebonke? 3 no 2 \rightarrow 5. (utitshala uthi: 3 no 2 benza 5) Utitshala upakisha izitulo ezi- 2. Yongeza ezinye ezi 2. Zingaphi ngoku zizonke? 2 no 2 \rightarrow 4. Utitshala uphakamisa isandla esinye. Uthi "bala iminwe yam. Ukuba ndifihle ubhontsi wam, mingaphi iminwe oyibonayo? 5 uthabathe u 1 \rightarrow 4. Abafundi mababale iminwe yabo kwisandla esinye. Fihla ubhontsi wakho, mingaphi iminwe oyibonayo? 5 uthabathe u 1 \rightarrow 4 <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi mabapakishe izinto zokubala eziyi- 6 benze ezi zinto zilandelayo:</p> <ul style="list-style-type: none"> Utitshala makanike abafundi izinto zokubala ezi- 6. Utitshala unika imiyalelo abafundi baphendule, imizekelo, pakisha izinto zokubala zibe- 2, yongeza ezinye ezi- 3. Zingaphi zizonke? 2 no 3 \rightarrow 5. Bala izinto zokubala ezi -4. Yongeza ezi -2 kwezi-4. zingaphi zizonke ngoku? 4 no 2 \rightarrow 6. Bala onke amaso onawo. Ukuba ugquma amaso amabini ngesandla sakho ubona amaso amangaphi ngoku? 6 uthabathe u 2 \rightarrow 4. 	<p>lingoma nezicengelelzo zamanani.</p> <p>Abafundi Izitulo</p> <p>Amaso nezinto zokubala.</p>	

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Iveki yama- 24	Isihloko	Amanqaku angangcaciso	Ixesha elithelelelwayo
1.13	Ukudibanisa nokuthabatha	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Ngomlomo, sombulula izibalo zamazwi ezibandakanya u- 6 <p>Ngomlomo: Bala izinto zemihla ngemihla uyokuma ku -6. Bala ukuya phambili, ubale ubuya umva uye kuma ku -6.</p> <p>Bethelela u “ zininzi/ zimbawu”. Qhwaba izandla kaninzi ...YIMA. Qhwaba izandla amaxesha ambalwa . . Utitshala uqhweba izandla aye kuma ku- 6 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p> <p>Ukusebenzisa zinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. UMpho unamaqebengwana ama- 4. UPeter umnika amanye ama- 2 ngaphezulu. Mangaphi amaqebengwana kaMpho ewonke? 2. UNontle unoonodoli aba -3 noMandisa unoonodoli aba- 2. Ngowuphi unoonodoli abaninzi? Bangaphi unoonodoli baka Nontle ngaphezu kwabaka Mandisa? 3. Kukho iintaka ezi- 5 elucingweni. Ezi -2 zibhabhile. Zingaphi iintaka ezishiyekileyo? 4. UPat uneemoto zokudlala ezi -6. UThina unezi- 4. Zingaphi iimoto zokudlala uThina anazo ngaphantsi kunezika Pat? 5. Umntwana ngamnye unempumlo enye. Abantwana abathathu bane 6. Umntwana ngamnye uneenyawo ezimbini. Abantwana abathathu bane..... 7. Umntwana ngamnye uneengalo ezimbini. Abantwana ababini bane..... 8. Umntwana ngamnye unomlomo omnye. Abantwana abathathu bane..... 	<p>Ixesha elithelelelwayo</p> <p>Usuku olu- 1</p> <p>Izixhobo ezinokusetyenziswa</p> <p>Iingoma nezicengelelzo zamanani.</p>
3.2	Izinto ezinokwakheka kuka 3-D	<ul style="list-style-type: none"> • Yakha izinto esinokwakheka kuka 3-D kuyilo okanye ikhadi lelinofanekiso. - Abafundi mabenze: - Yakha isakhiwo usebenzisa umfanekiso - Abafundi bahloha amaso belandela abakubona emfanekisweni. 	<p>Izinto zokubala</p> <p>Sebenzisa iindidi zezixhobo ezahlukeneyo ezinokunika iindidi zokusebenzisa izicwangciso -qhinga.</p> <p>“imilo yeLogi” izakhono ngebhloko</p> <p>Nasiphi isixhobo sokwakha</p> <p>Amaso, umtya wesihlangu</p> <p>Amakhadi ahlukeneyo abonisa iindlela ezahlukeneyo zamaso.</p>

Iveki yama- 25	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>1.1</p> <p>Bala izinto</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> Bethelela ulwazi olufunyenwe kwiveki yama- 24 olubandakanya inani u-6. <p>Ngomlomo: bala izinto yonke imihla uyo kuma ku -6.</p> <p>Bala usiya phambili, ubale ubuya umva uyokuma ku -6.</p> <p>Bala ngentloko ngokungenantsingiselo 1-10</p> <p>Bethelela iingqiqo ezingu “zininzi/ zimbawo”</p> <p>Qhwaba kaninzi...YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma ku- 6</p> <p>Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p>	<p>Iseti yamakhadibhodi enkulu eneesimboli zamanani.</p> <p>Ungawapeyinta kwiplastiki eqinileyo okanye kwikhadibhodi.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;">3</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">1</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">6</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">4</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">5</div> <div style="border: 1px solid black; padding: 5px; margin: 5px;">2</div> </div>	<p>usuku olu- 1</p>
	<p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Masidlale umdlalo:</p> <p>Utitshala ubeka ikhadibhodi enkulu enamanani okanye amakhadi anamanani ukuqala ku- 1 ukuya ku -6 ngokokulandelelana kwawo phantsi.</p> <p>Utitshala unika abantwana imiyalelo enje nge:</p> <ul style="list-style-type: none"> - Hlala kwinani u- 6. - Beka umnwe wakho kwinani u -3. - Baleka ujikeleze kwinani u- 2 kathathu. - Xhuma phezu kwenani u -1. - Utitshala makasaze amakhadi anamanani abanike le miyalelo ingentla. <p>Ukusebenzisa izinto eziphathekayo ezinokwakhela kuka 3-D</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Bala izinto eklasini ezibandakanya amanani u-1 ukuya kwi-6. - Utitshala upakisha izinto phezu kwetafle. Abafundi mabaqikelele ukuba zingaphi ezi zinto bazibonayo. Mabazibale emveni koko. 		

Iveki yama- 25 Ixsha lokufundisa ekucetyiswa ukuba lisetyenziswa: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixsha elithelelelwayo
<p>Isihloko</p> <p>1.3</p> <p>Iisimboli zamanani kunye namagama amanani</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> Nakana uze uchonge iisimboli zamanani namagama amanani abandakanya inani u -6 <p>Ngomlomo: bala izinto ezisetyenziswa yonke imihla uyo kuma ku -6. Bala usiya phambili, ubale ubuya umva uyokuma ku-6. Ukubethelela iingqiqo ezingu “zininzi/ zimbawo” Qhwaba kaninzi...YIMA. Qhwaba izandla amaxesha ambalwa. Utitshala uqhwaba izandla aye kuma ku- 6 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci</i></p>	<p>Iingoma nezicengelelo zamanani.</p>	<p>usuku olu- 1</p>
	<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Bonisa onotsheluzi abanemifanekiso ano- 6 ubadibanise namachokoza nezinto zokubala ezino-6. - Dlala umdlalo ukhethe inani eliyisimboli elifana ngqo, kwamanye ulithelekise nezinto zokubala ezifanayo. - Dlala umdlalo ukhethe igama lenani elifana ngqo, kwamanye ulithelekise nezinto zokubala ezifanayo. - Dlala umdlalo ukhethe inani lezinto zokubala elifana ngqo, kwamanye ulithelekise nezinto zokubala ezifanayo. - Cinezela(threyisa) inani u- 6 usebenzise ikhrayoni. 	<p>Izinto zokubala</p> <p>Oonotsheluzi abaneesimboli zamanani namagama amanani, umzekelo</p>	

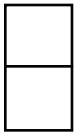
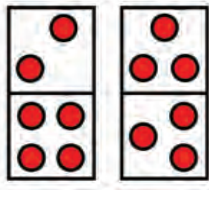
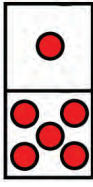
Ivekhi yama- 25	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
<p>1.4 Chaza, thelekisa uze ulandelelanise amanani</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Landelelanisa uze uthlekise ingqokelela yezinto usebenzisa “ ngaphezu kuna/ ngaphantsi kuna” uyokuma ku -6. <p>Ngomlomo: bala izinto uyokuma ku -6. Bala usiya phambili, ubale ubuya umva uyokuma ku-6.</p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawala” Qhwaba kaninzi... YIMA. Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma ku- 6 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p>	<p>Iihupu (hoops)ezimbini</p> 	<p>Usuku olu- 1</p> <p>Khetha uphela imisebenzi embalwa.</p>
	<p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala ubeka ihupu ezimbini phantsi - Ubiza abafundi abathathu beme kwindlu yentaka yokuqala aze abize abanye ababini baye kuma kwenye indlu yeentaka. - Yeyiphi indlu yeentaka enabafundi abaninzi kunenye? <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Abafundi mabahlale emethini benze iindlwana zeentaka ezimbini ngewulu. - Utitshala unika imiyalelo, umzekelo, abafundi babeka izinto zokubala zibe mbini kwindlu yeentaka nezine kwenye indlu yeentaka, yeyiphi indlu yentaka enezinto zokubala ezininzi? Yeyiphi enezingaphantsi? Phinda phinda usebenzise amanani uyokuma ku -6. - Utitshala usebenzisa isiciko sesikhongozeli seayisi krim. Uxhoma iiphegi ezintathu phezu kwesiciko nezinye ezintathu ekunene kwesiciko. Zeziphi iiphegi ezininzi kunezinye okanye ziyalingana? - Abafundi bangenza umdlalo ngalo msebenzi bengamaqela besebenzisa iziciko neempahla zabo. 	<p>Izijingqe ezimbini zewulu kumfundi ngamnye.</p> <p>Izinto zokubala</p> 	

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Iveki yama- 25	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelelelwayo
Isihloko	<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Utitshala ubonisa amakhadi anamachokoza anamanani anemifanekiso kuyo  <ul style="list-style-type: none"> - Abafundi mabathelekise amakhadi anemifanekiso namachokoza bakhangelele "amaninzi kunamanye" ambalwa kunamanye "alinganayo". <p>Abafundi bazoba izindlu zeentaka ezimbini ephetheni. Kumyalelo, mabapakishe izinto zokubala bazitshatise nezindlu zeentaka ngekhrayoni. Phuhlisa ingqiqo u" yahlula ngokulinganayo" umzekelo</p>  <p>Yenza amaqela amanani azeleyo iimpendulo zibe nentsalela, umzekelo</p> 	<p>Imifanekiso kunye namakhadi anamachokoza.</p> <p>Iphepha eliyi A4 neekhrayoni zamafutha Izinto zokubala</p>	
3.3 Iimilo ezinokwakheka kuka 2-D	<p>Nakana, uchonge uze uxele amagama eemilo ezinokwakheka kuka 2-D ekilasini nasemifanekisweni</p> <ul style="list-style-type: none"> • Yenza ugqibezele iphazili enezicwili ezintlanu <p>Abafundi maba:</p> <ul style="list-style-type: none"> • Zoba umfanekiso kwiphepha le A4. • Utitshala uzoba imigca emva kwemizobo yabafundi. • Umfundi usika umfanekiso phezu kwemigca. • Umfundi ugqibezela iphazili yakhe. 	<p>Iikhrayoni iphepha le A4 izikere</p> <p>Imvulopu okanye ibhegi ozenzeleyo ukufaka iphazili kwi (goba iphepha ufake iglu emacaleni).</p> 	Usuku olu- 1

Iveki yama- 25	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)																														
Isihloko	Amanqaku angangcaciso	Izixhobo ezinokusetyenziswa	Ixesha elithelekelelwayo																												
<p>5.1</p> <p>Qokelela uze uhlele izinto</p> <p>5.1</p> <p>Inani loonobumba kumagama abafundi</p> <p>Ukusombulula iingxaki: Buza abafundi ingxaki yezibalo:</p> <p>“Ingaba amagama anoobumba abathandathu ngawona athandwayo? Singenza njani siyifumane impendulo? Loluphi ulwazi ekufuneka siluqokelele?</p> <p>Qokelela ulwazi</p> <ul style="list-style-type: none"> - Abafundi mababale oonobumba kumagama abo, kwiileyibhile zamagama ebezenziwe ngutitshala. - Utitshala uphakamisa ikhadi elinenani elingqamana nenani loonobumba begama lomfundi, abuze: ngubani umfundi onegama elinoonobumba aba- 4, uphakamisa ikhadi eline nani u -4. qhuba ngawo onke amanani. <p>Zoba igrafu</p> <ul style="list-style-type: none"> - Utitshala uzoba le grafu elandelayo ephakamise amanani: 																															
<p>5.2</p> <p>Bonisa ingqokelela yezinto ezihleliweyo</p>	<table border="1"> <thead> <tr> <th>lileta ezi 3</th> <th>lileta ezi 4</th> <th>lileta ezi 5</th> <th>lileta ezi 6</th> </tr> </thead> <tbody> <tr> <td>Tom</td> <td>Solo</td> <td>Phiko</td> <td>Unathi</td> </tr> <tr> <td>Pam</td> <td>Miya</td> <td>Nathi</td> <td>Phumla</td> </tr> <tr> <td></td> <td>Nobe</td> <td>Sipho</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Ludwe</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Naila</td> <td></td> </tr> <tr> <td>2</td> <td>3</td> <td>5</td> <td>2</td> </tr> </tbody> </table>	lileta ezi 3	lileta ezi 4	lileta ezi 5	lileta ezi 6	Tom	Solo	Phiko	Unathi	Pam	Miya	Nathi	Phumla		Nobe	Sipho				Ludwe				Naila		2	3	5	2		
lileta ezi 3	lileta ezi 4	lileta ezi 5	lileta ezi 6																												
Tom	Solo	Phiko	Unathi																												
Pam	Miya	Nathi	Phumla																												
	Nobe	Sipho																													
		Ludwe																													
		Naila																													
2	3	5	2																												
<p>5.3</p> <p>Xoxa uze unikezele ingxelo yengqokelela yezinto ezihleliweyo</p>	<p>Funda uze utolike igrafu</p> <ul style="list-style-type: none"> - Leliphi inani elifumaneka rhoqo koonobumba bamagama? - Ngawaphi amagama anoobumba abangaphezu kwe -5?. - Ngawaphi amagama anoobumba abangaphantsi kuno -5?. 																														

Iveki yama- 26	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>1.1</p> <p>Ukubala amanani</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Bethelela ulwazi olufunyenwe kwiveki yama- 24 equka amanani u-1 ukuya kwi -6 <p>Ngomlomo: bala izinto yonke imihla uyokuma ku -6. Bala usiya phambili, ubale ubuya umva uyokuma ku -6.</p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawo” Qhwaba kaninzi...YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma kwi- 6 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p> <p>Ukufunda usebenzisa intshukumo yomzimba Abafundi ba:</p> <ul style="list-style-type: none"> - kha isimboli yamanani ngemizimba yabo. - Bonisa inani leminwe yabo ngokomyalelo katitshala. - kha isimboli zamanani ngomtya okanye ngentlama yokudlala. - va imilo yenani esingxobeni bachaze inani ngalinye. - Bhala isimboli yenani ukuqala ku -1 uyokuma ku -6 phantsi nasemoyeni, nji. 	<p>lingoma nezicengelezo zamanani.</p> <p>liseti ezimbini zemilo zamanani zekhadibhodi “kwiingxobo sokuva” .</p>	<p>Usuku olu- 1</p>


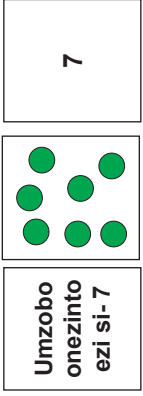
Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>1.1</p> <p>Ukubala amanani</p>	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Bale izinto eklasini eziquka e-1 ukuya kwezi- 6 - Bale izinto zokubala uyokuma ku -6. - Beke iityhubhu okanye izinto zokubala ezinemibala ngomgca phezu kwetafile. - Tshatise iityhubhu ngemibala besebenzisa iityhubhu zeyunifiksi okanye izinto zokubala. Imizekelo: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>BOMVU</p> </div> <div style="text-align: center;"> <p>BHLOWU</p> </div> <div style="text-align: center;"> <p>LUHLAZA</p> </div> </div> <p style="margin-top: 20px;">- Yenza amaqela obude ahlukeneyo. Abafundi mabatsatise ngokobungakanani.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> </div>	<p>Izinto eklasini</p> <p>Izinto zokubala ezinemibala okanye iityhubhu zeyunifiksi (unifix tubes).</p>	
<p>1.3</p> <p>Iisimboli zamanani namagama amanani</p>	<ul style="list-style-type: none"> • Azi iisimboli zamanani aze anakane amagama amanani abandakanya u -1 ukuya ku -6. <p>Ngomlomo: bala izinto yonke imihla uyokuma ku -6.</p> <p>Bala usiya phambili, ubale ubuya umva uyokuma ku- 6.</p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawwa”</p> <p>Qhwaba kaninzi...YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kwi- 6.</p> <p>Ukusebenzisa imilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Masenze umdlalo:</p> <ul style="list-style-type: none"> - Utitshala wenza amakhadi anamanani ano 1-6 anamagama amanani ecaleni nesimboli kwelinye icala. - Abafundi bafunda amagama amanani baqikelele iisimboli zamanani. - Baguqula amakhadi bazilungise apho benze kakubi khona. 	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;">Umphambili wekhadi</div> <div style="border: 1px solid black; padding: 5px;">Umva wekhadi</div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px;">Thandathu</div> <div style="border: 1px solid black; padding: 5px; width: 30px; text-align: center;">6</div> </div> <p>Amakhadi anamanani u 1-6 anamagama amanani ecaleni nesimboli kwelinye icala. (yenza iseti ezimbawwa ukwenzela ukuba umfundi ngamnye abe neseti yakhe).</p>	<p>usuku olu- 1</p>

Ivekhi yama- 26	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>1.7 Ukudibanisa nokuthabatha</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> Sombulula izibalo zamazwi ngomlomo (izibalo zamazwi) kwimeko ethile uze ucacise isisombululo kwiingxaki yezibalo ezibandakanya inani- 6. <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawu” Qhwaba kaninzi... YIMA. Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma ku- 6 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p> <p>Ukusebenzisa zinto eziphathekayo ezinokwakhela kuka 3-D</p> <ol style="list-style-type: none"> Nika umfundi ngamnye iphepha I A4 elinemigca enyukileyo nezinto zokubala ezi- 6, imizekelo  Yenza abafundi baziphose izinto zokubala ngobunono ephapheni bacacise ukuba ziwe njani, imizekelo  Phinda ngamanani u 1 ukuya 5.  Ukusombulula iingxaki: Cacisa izisombululo zengxaki. Yenza ngokufanayo nakwiingxaki zokuthabatha. 	<p>lingoma nezicengelezo zamanani.</p> <p>Umfundi unikwa izinto zokubala ezi- 6 Iphepha elinemigca enyukileyo embindini eyi A4</p>	<p>Usuku olu- 1</p>

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Iveki yama- 26	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>Isihloko</p> <p>4.4</p> <p>Umthamo/Ivolumu</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Fundisa umlinganiselo womthamo ngokuthelekisa ukuba izikhongozeli zithatha kangakanani, imizekelo <ul style="list-style-type: none"> - “ayinanto/ izele” - “ungaphezu kune/ ingaphantsi kune” - Kakhulu, kancinci <p>Fundisa umthamo kubafundi ngokubuza ukuba sesiphi isikhongozeli ezithatha kakhulu. Abafundi bathanda ukwenza uthelekiso kubude ngaphezu komthamo. Umzekelo, xa bebuzwa ukuba yeyiphi ethatha umthamo omkhulu, isikhongozeli eside nesifutshane, abafundi abaninzi baya kukhetha isikhongozeli eside nokuba esifutshane sithatha umthamo omkhulu wamanzi.</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>“enkulu kune/ ngaphantsi kune”</p> <ul style="list-style-type: none"> - Sebenzisa isikhongozeli esinye njengomlinganiselo omiselekileyo, umzekelo, ikomityi yeyogathi. Nika abafundi iindidi ezahlukeneyo zezikhongozeli. - Abafundi mabenze: <ul style="list-style-type: none"> - Khangela ukuba zeziphi izikhongozeli ezithatha umthamo omkhulu, zeziphi ezithatha ngaphantsi, umzekelo ikomityi yeyogathi. “Sesiphi isikhongozeli esikhulu? Sesiphi isikhongozeli esithatha kancinci?” <p>Nika abafundi icephe nebhakethi enesanti ukugalela isanti ekomityini ngecephe. Abafundi mabenze ezi zinto zilandelayo:</p> <ul style="list-style-type: none"> - Bala ukuba mangaphi amacephe afunekayo ukuzalisa ikomityi. Ufuniselo lungenziwa nzima ngokubanika izikhongozeli ezininzi, imizekelo, ikomityi, iglasi yeplastiki, nejagi encinci. - Phinda lo msebenzi usebenzise iikomityi. 	<p>Amanzi nesanti zezona zixhobo ukuphuhlisa umthamo (ngexesha lomdlalo wamanzi) nange (ngexesha lomdlalo wesanti)</p> <p>Iindidi zezikhongozeli ngokwe milo nobungakanani.</p> <p>Ikomityi yeyogathi</p> <p>Ibhaskithi yesanti Ikomityi Icephe</p>	<p>Usuku olu-1</p> <p>Khetha umsebenzi omnye okanye emibini.</p>


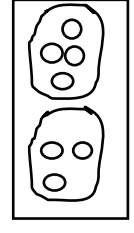
Iveki yama- 26	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>3.1 Indawo-bume, ukufumana indawo nembonakalo</p>	<p>Ukuchaza into enye okanye ngaphezulu ezinokwakheka kuka- 3-D ngokunxulumene nenye</p> <ul style="list-style-type: none"> • Indawo-bume yezinto ezi-2 okanye ngaphezulu ngokunxulumene nenye <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Ibhodi yephegi (Pegboard work)</p> <p>Abafundi mabasebenzise isandla sasekhohlo nesasekunene, emveni koko mabazisebenzise zombini ukufaka iiphegi ebhodini.</p> <ul style="list-style-type: none"> - Utitshala uxelela abafundi ukuba bazifake phi iiphegi, imizekelo <p>Kumqolo ongaphambili Ikumqolo ongezantsi Ngasekhohlo ngasekunene Embindini</p> <p>Abafundi mabenze ezi zinto zilandelayo:</p> <ul style="list-style-type: none"> - Yenza iimilo kwiphegi bhodi usebenzisa iiphezi zemibala. - Utitshala wenza ipateni elula ngeephegi kwi phegibhodi abafundi bakope kwezabo iibhodi. - Abafundi bakopa ipateni kumakhadi anemizobo. 	<p>Iphegi bhodi yomfundi ngamnye okanye ngokwamaqela. Amakhadi azotywe iipateni.</p>  <p>Iphegi bhodi yomfundi ngamnye okanye ngokwamaqela. Amakhadi azotywe iipateni.</p>	<p>usuku olu- 1</p>

Iveki yama- 27	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa
<p>1.1</p> <p>Ukubala izinto</p>	<p>• Fundisa intsingiselo yenani u- 7</p> <p>Ngomlomo: Bala izinto yonke imihla uyo kuma kwi- 7.</p> <p>Bala usiya phambili, ubale ubuya umva uyokuma kuwi-7.</p> <p>Ukubala ngentloko ngokungenantsingiselo usuka ku-1 uyokuma kwi- 10.</p> <p>Ukubethelela amanani aqhelekileyo:</p> <p>Utitshala upakisha izinto ezi -3 ngomgca. Khomba kwinto ngeli xesha ubalayo eyokuqala, <i>eyesibini, eyesithathu, eyesine.</i></p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawu”</p> <p>Qhwaba kaninzi... YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma kwi- 6</p> <p>Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala wahlula abafundi ngokwamaqela. Nika iqela ngalinye iibhola ezisi- 7 ezenziwe ngamaphephandaba. - Abafundi mabaphose iibhola ebhaskithini. Abafundi mababale ngokukhwaza xa bephosa iibhola. - Bala amaxesha utitshala angqisha etafileni umkope. - Bala usebenzisa ibhithi esetyenziswa rhoqo lo mzuzu abafundi behamba ngamanyathelo, betsibela ngaphakathi nangaphandle. - Ngqisha iinyawo ngexesha usebenzisa isingqisho esisetyenziswa rhoqo. 	<p>Ixesha eliqikelelweyo</p> <p>Usuku olu- 1</p> <p>Iingoma nezicengelezo zamanani.</p> <p>Iibhola zamaphephandaba</p> <p>Ibhaskithi</p>

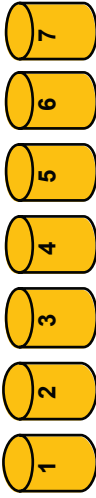
Iveki yama- 27	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa
<p>1.1</p> <p>Ukubala izinto</p>	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Ututshala upakisha iibhloko zokwakha embindini womgangatho.</p> <p>Unika imiyalelo enjengale:</p> <ul style="list-style-type: none"> - Thatha iibhloko ezintathu kwezipakishiweyo. - Thatha iibhloko ezine kwezipakishiweyo uzibuysisele ezimbini njl. - Utitshala upakisha izinto phezu kwetafile. Abafundi mabaqikelele ukuba zingaphi izinto ezipakishiweyo.zibaleni emva koko. - Ukuphuhlisa ulwazi ngocino lwamanani ngokuba abafundi bapakishe izinto zokubala ezisixhenxe okanye izinto ngeendlela ezahlukeneyo, imizekelo  <p>Xa ubala , inani lezinto alichaphazeli ubungakanani, okanye indawo, okanye ngokufana. imizekelo:</p> <ul style="list-style-type: none"> - Cwangcia amaqhosha asi- 7 , ipensile ezisi -7 ,ihipupu (hoops) ezisi -7 , abafundi abasi -7, njl. - Zibale ngeendlela ezahlukeneyo, imizekelo, zibale uzisasazile, zindawonye,zisemgceeni okanye zicukene. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Masidlale umdlalo:</p> <ul style="list-style-type: none"> - Utitshala uyazoba okanye ancamathisele imfanekiso kwelinye icala lekhadi, azobe amachokoza kwelinye, aquka amanani aqala ku -1 ukuya ku -7, (yenza iiseti ezimbalwa). - Ukhupha iseti yamakhadi kumfundi ngamnye. - Abafundi babala imifanekiso esekhadini. - Guqula ikhadi uze ubale amachaphaza. - Utitshala uphakamisa ikhadi elinamachaphaza. - Abafundi batsatisa awabo amakhadi kwelekatitshala. - Utitshala uphakamisa iseti yamakhadi anesimboli kuwo. - Abafundi batsatisa awabo amakhadi kulawo katitshala anesimboli. - Umfundi onekhadi elichanekileyo makaphakame, abale inani lemifanekiso ngokukhwaza. 	<p>Ibhloko zokwakha okanye iibhloko zelego</p> <p>Iseti ezimbalwa zemifanekiso noonotsheluzi beesimboli ezino -1 ukuya ku 7.</p> 


Iveki yama- 27	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)										
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo								
<p>1.13</p> <p>Ukudibanisa nokuthabatha</p>	<p>• Sombulula ngomlomo iingxaki zokudibanisa nokuthabatha eziquka inani u-7</p> <p>Ngomlomo: Bala izinto yonke imihla uyo kuma ku- 7. Bala usiya phambili, ubale ubuya umva uyokuma ku -7.</p> <p>Bethelela iingqiqo ezingu “zininzi/ zimbawo”</p> <p>Qhwaba kaninzi... YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhwaba izandla aye kuma ku- 6</p> <p>Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p>	<p>lingoma nezicengelezo zamanani.</p>	<p>Usuku olu-1</p>								
<p>1.6</p> <p>Ubuchule bokusombulula iingxaki</p>	<p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Sebenzisa ileli yamanani ilele ncwaba (ngokuxwesa) - Qala ngo -0 rhoqo. Bala rhoqo xa ushukuma. <p>Utitshala uyabuza:</p> <ul style="list-style-type: none"> - Leliphi inani eliphakathi kwe- 4 nesi- 6? Umfundi uba nolwazi xa esebenzisa ileli yamanani. - Ngawaphi amanani aphakathi ko- 2 nesi- 5? - Sebenzisa ezakho iimbono ukwenza abafundi ukuba bazi inani u-7 ngokubamba izinto besebenzisa imizimba yabo. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka- 3-D</p> <p>Nika umfundi ngamnye amaso okanye izinto zokubala ezisi- 7.</p> <p>Buza imibuzo enjengale:</p> <ul style="list-style-type: none"> - Susa into yokubala ibe- 1 kwelinye icala (ekhohlo). Xa sifakela enye into yokubala ekhohlo, zingaphi ke ngoku? - U- 1 no -1 → 2 (utitshala uthi: 1 no 1 zenza 2) - Yisa izinto zokubala ezi- 4 ngasekunene. Xa sifakela ezimbini ngaphezulu ngasekunene, zingaphi ngoku? - kunye no- 2 → 6 - unezinto ezi- 5 zokubala uthathe ezi-2, zingaphi ezishiyekileyo? 	<table border="1"> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> </tr> </table> <p>Amaso okanye izinto zokubala</p> <p>Izinto zokubala</p>	0	1	2	3	4	5	6	7	
0	1	2	3	4	5	6	7				

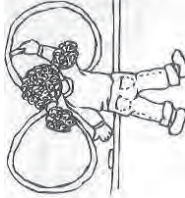
Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Iveki yama- 27	Isihloko	Amanqaku angangcaciso	Ixesha eliqikelelweyo
1.11	Imali	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Nakana uze uchonge imali yaseMzantsi Afrika <p>Imali engamaphepha</p> <ul style="list-style-type: none"> - Sebenzisa imali yamaphepha, imizekelo R10, R20, R50, R100, R200 - Yazisa abafundi ngemifanekiso yezilwanyana ezahlukeneyo kwimali yamaphepha - Mabenze imidlalo yemali kwizindlu zokudlala. 	<p>Izixhobo ezicetyiswayo/ ezinokusetyenziswa</p> <p>Imizekelo yenyani yemali yamaphepha R10, R20 ne R50 (okanye imali yamaphepha okudlala)</p> <p>Usuku olu- 1</p>
1.9	Ukwahlula ngokwamaqela nokwaba ngokulinganayo okukhokelela kulwahlula-hlulo	<ul style="list-style-type: none"> • Ngomlomo, sombulula uze ucacise iingxaki zezibalo zamazwi eziquka: - Ukwaba ngokulinganayo, - Ukwahlula ngokwamaqela amanani apheleleyo kunye - nezisombululo ezinentsalela yamanani ukuya ku -7 <p>Ngomlomo: Bala izinto yonke imihla uye kuma kwi- 7. Bala ukuya phambili, ubale ubuya umva uye kuma kwi-7.</p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawala” Qhwaba kaninzi... YIMA. Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma kwi- 6 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p>	<p>Usuku olu- 1</p> <p>Khetha omnye okanye emibini imisebenzi ebandakanya ukufunda usebenzisa intshukumo yomzimba</p> <p>lingoma nezicengelezo zamanani.</p>

Iveki yama- 27	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa
<p>1.9 Ukwahlula ngokwamaqela nokwaba ngokulinganayo okukhokelela kulwahlula-hlulo</p>	<p>Ukufunda usebenzisa intshukumo yomzimba Yakha iiseti usebenzisa abafundi:</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. Abafundi mabakhe amaqela ngaba 2, 3, 4, 5 nangaba- 6.Bala ukuba bangaphi abafundi kwiqela. 2. Zoba iimilo ezinkulu kwikonkriti okanye esantini. Abafundi benza amaqela, imizekelo, abafundi aba- 4 phakathi kwemilo. 3. Ngexesha lokutya utitshala uthi: “ungaya kwiqela labafundi abane ukuyohlamba izandla”okanye uthi: “ abafundi abane mabaye kuhlamba izandla”. 4. Khethe abafundi abasi-7 usebenzisa izicengelezo zokubala. 5. Abafundi abasi -7 mabalinganise babeziintaka benze ngathi kukho umithi besebenzisa izinto zokudlala zokugwencela zaphandle okanye izitulo neetafile ngaphakathi. 6. Utitshala wenza umdlalo wokuthumela iintaka ezimbini emithi (abafundi ababini bagwencela kwisixhobo). Intaka nganye ngexesha ibhabhela emthini. “Ziingaphi iintaka emthini ngoku? Zingaphi emhlabeni?” 7. Pinda wenze amaqela abafundi usebenzisa amanani ukusuka ku-1 ukuya kwi-7. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. Utitshala unika abafundi izinto zokubala. Abafundi mabenze iiseti ezi- 4 ngezinto zokubala. Yenza enye iseti yoonontathu. “zingaphi izinto zokubala kule seti intsha?” 2. Abafundi mabazobe izangqa ezimbini ephapheni. Utitshala makanike imiyalelo, abafundi mabapakishe izinto zokubala besenza iiseti ezimbini ukwenzela kubekho iseti enezinto zokubala ezingaphezulu kunezinye iiseti. Buza imibuzo enje ngo “yeyiphi iseti enezinto zokubala ngaphezulu/ ngaphantsi?” 	<p>Ixesha eliqikelelweyo</p> <p>Sebenzisa izixhobo ezahlukeneyo ukunika ezinye iindlela zokufundisa.</p> <p>Izixhobo zokunyuka okanye iitafile nezitulo.</p>  <p>Izinto zokubala</p> <p>Nika abafundi iphepha nekhrayoni izinto zokubala</p> 

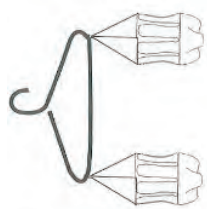
Iveki yama- 27	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>4.4 Umthamo/ivolumu</p>	<p>Thelekisa uze ulandelanise ngokwenza izinto ngezinto usebenzisa isigama esicacisayo:</p> <p>a) umthamo</p> <p>b) ayinanto, izele, incinci kune, zininzi kune, kakhulu, kancinci)</p> <p>Ngomlomo: bala izinto yonke imihla uyo kuma ku- 7.</p> <p>Bala usiya phambili, ubale ubuya umva uyokuma ku -7.</p> <p>Bethelela ulwazi olufunyenwe kwiveki yama- 26 ekuka umthamo</p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbalela”</p> <p>Qhwaba kaninzi... YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhwaba izandla aye kuma kwi- 6</p> <p>Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p> <p>Ukufunda usebenzisa intshukumo yomzimba</p>	<p>amanzi (ngexesha lomdlalo wamanzi) nesanti (ngexesha lomdlalo wesanti) zikulungele ukuphuhlisa umthamo.</p> <p>lingoma nezicengelezo zamanani.</p> <p>Iindidi zezikhongozeli zeendidi ezahlukeneyo zeemilo nobungakanani.</p>	<p>iintsuku ezi- 2</p> <p>Okanye imisebenzi ekhethiweyo emibini okanye emithathu</p>
	<p>Abafundi maba:</p> <ul style="list-style-type: none"> - Cwangcisa izikhongozeli ezibini okanye ezintathu ngokwemithamo, ngamanye amazwi, sesiphi isikhongozeli esinokuthatha ezininzi okanye ezimbalela? abafundi BangaHloa ukuqashisa kwabo ngokugalela amanzi kwizikhongozeli ezingenanto babale ukuba sesiphi esithatha ezona komityi ezininzi. Yongeza inani lezikhongozeli ukuyenza nzima ngakumbi. - Abafundi Bangasebenzisa ikomityi ukulinganisa ukuba zingaphi iikomityi zerayisi, imbotyi okanye isanti ukugcwalisa. - Funa izikhongozeli eziyeleleneyo (imiz. ibhakethi kwipitsi yesanti) ukuqala kuncinci ukuya ku- nkulu. - Nika abafundi iindidi zezikhongozeli (iindidi zobungakanani neemilo) uze ubuze imibuzo: <ul style="list-style-type: none"> o “Zeziphi izikhongozeli ezinokuthatha awona manzi okanye isanti?” o Xa ugalela amanzi kwizikhongozeli ukusa kwesinye, ingaba uzakusigwalisa?” - Abafundi mabazikhangelele ukuba kwenzeka ntoni xa isikhongozeli singagcwaliswanga ncam xa kuphinde kwagalelwa amanye, imizekelo- yongeza amabhastile/iimbhile ezicocekileyo, iibhloko zeLego, iibhloko zeplastiki, imizekelo, abafundi bayiyatha imidlalo yokuqashela xa beqashela ukuba sesiphi isikhongozeli esithatha umthamo omkhulu, bakhangele iimpendulo zabo ukuba baphumelele na. (utitshala uyacacisa ukuba izito ezidadayo azichaphazeli ubungakanani bamanzi). 	<p>ikomityi</p> <p>ikomityi</p> <p>irayisi</p> <p>iimbotyi</p> <p>Iindidi zobungakanani zamabhakethi kwipitsi lwesanti.</p>	<p>Iindidi zezikhongozeli zeendidi ezahlukeneyo zeemilo nobungakanani.</p> <p>amanzi</p> <p>Isanti</p> <p>Izinto ezinje ngamabhastile acocekileyo, iibhloko ze Lego, iibhloko zeplastiki.</p>




Iveki yama- 28	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>1.1</p> <p>Ukubala izinto</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Bethelela ulwazi abalufumeneyo kuquka inani- 7 NGomlomo: bala izinto yonke imihla uyo kuma kwi -7. Bala usiya phambili, ubale ubuya umva uyokuma kwi- 7. Bethelela iingqiqo ezingu “zininzi/ zimbawo” Qhwaba kaninzi...YIMA. Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma kwi -7 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Abafundi ababini babizwa ngaphambili. Abanye abafundi bayababala. Abafundi ababini aBangaphambili baphakamisa iisimboli ezinamanani. - Yongeza omnye umfundi ngaphambili. Abanye abafundi bayababala. Umfundi omnye makaphakamise isimboli enenani u -3. - Qhuba kude kube nabafundi abasi- 7 ngaphambili. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Beka iinkonkxa ezisi- 7 ngomgca umz. <div style="text-align: center;">  </div> <ul style="list-style-type: none"> - Abafundi mababeke imbewu/ iitye kwinkonkxa yokuqala, ezimbini kweyesibini, ezintathu kweyesithathu, baqhubekeke zide iinkonkxa zosi- 7 zibe nsembewu/ namatye njengokuba kubonisiwe ngaphandle. - Thatha iikhrayoni (phakathi kwe- 10 ne- 15) bazifake ekomityini. Abafundi mabaqashele ukuba zingaphi ezisekomityini. Mabaxoxe impendulo. - Bonisa ukuba zibalwa njani ngokukhupha ibenye ngexesha bazibeke ngomgca. 	<p>lingoma nezicengelezo zamanani.</p> <p>Amakhadi eesimboli aquka u- 1 ukuya ku- 7.</p> <p>Iinkonkxa ezisi 7 ezinesimboli zamananzincanyathiselwe kuzo limbewu okanye amatye</p> <p>Iikhrayon neemagi</p>	<p>Usuku olu- 1</p>



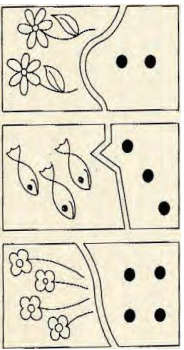

Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Iveki yama- 28	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>Isihloko</p> <p>1.3</p> <p>Iisimboli zamanani namagama amanani .</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Nakana isimboli yenani negama lenani eibandakanya u- 7. • Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso . <p>Masenze umdlalo:</p> <ul style="list-style-type: none"> - Abafundi mabahtlale kwisangqa.Beka ikhadi elinenani liqubudiwe phambi komfundi ngamnye. (inokuba yisimboli, igama, amachaphaza okanye umfanekiso equka amanani u- 1 ukuya kwi- 7) - Fundisa abafundi ukugqithisa amakhadi kumfundi olandelayo ngokuwatsibiliiza ngobuso phantsi emethini. - Abafundi bayacengeleza: "Inani eliyimfihlo, inani eliyimfihlo, linoba lithini? Mandikrobe" - Abafundi baya kroba emakhadini. - Utitshala uphakamisa ikhadi lakhe lenani. - Abafundi abanamakhadi afana nakatitshala baphakamisa awabo, bathi: "ndizakuliphakamisa ikhadi lam phezulu, ukwenzela wonke ubani abone". 		<p>Usuku olu- 1</p>
<p>3.2</p> <p>Izinto ezinokwakheka kuka- 3-D</p>	<ul style="list-style-type: none"> • Yakha izinto ezinokwakheka kuka-3-D usebenzisa izinto eziphathekayo • Kopa isakhiwo kwikhadi eliyiliweyo okanye elinomfanekiso <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Umfundi wakha isakhiwo esifana nesakhiwo esisemfanekisweni. - Kopa uyilo olusemfanekisweni usebenzise iphegibhodi. <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Wandise lo msebenzi kubuGcisa obubonwayo.</p> <ul style="list-style-type: none"> - Nika umfundi ngamnye iphepha elinezangqa ezikhulu nezincinci, oonxantathu nezikwere. <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Sike iimilo bakhe izakhiwo ezinokwakheka kuka 2-D ephepheni bazincamathisele. - Hombise imifanekiso ngemizobo. 	<p>"imilo zeLogi" izakhono zebhloko</p> <p>"iibhloko zengqondo"</p> <p>Nokuba zeziphi (pegboard) izixhobo zokwakha</p> <p>Iphegibhodi</p> <p>Izangqa ezinkulu nezincinci, nxantathu nezikwere ephepheni.</p> <p>Izikere, iglu</p>	<p>Usuku olu- 1</p> <p>Iyaqhubeka</p>

Iveki yama- 28	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)		
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>3.4</p> <p>Ulingano-macala</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Phuhlisa ukukwazi ukubona umgca ophakathi kubo Ukufunda usebenzisa intshukumo yomzimba <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Khumbule ulwazi obunalo; bamba amalungu omzimba ngemiyalelo. Dlala “uSimoni uthi: bamba....” - Nika eminye imiyalelo apho abafundi bawela umgca ophakathi njenge: “bamba idolo lakho ngempumlo, bamba igxalaba lakho ngendlebe. Bamba idolo lakho lasekhohlo ngonyawo lwasekunene. Bamba ingqiniba yakho ngesandla sakho, njl. 	<p>Umdlalo: “USimoni uthi, bamba.....”</p>	<p>Mabanakane umgca wolingano-macala kubo na-kokubangqongileyo.</p> <ul style="list-style-type: none"> • Bawela umgca ophakathi kubo
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Zobe izangqa ebhodini. - Zobe imigca ebhodini. Qinisekisa ukuba abafundi bawela umgca ophakathi. - Zobe umgca ebhodini udibanisa ichokoza kwelinye elikude kwelinye. - Zobe umzobo osisi- 8 oleleyo ebhodini. Sebenzisa iintshukumo ezinkulu ukuqinisekisa ukuba abafundi bawela umgca ophakathi. <p>(Abafundi basebenzisa izandla zasekunene nasekhohlo.)</p>	<p>Abafundi bazoba ebhodini</p> 	
	<p>Ukusebenzisa imilo enokwakheka kuka 2-D okanye imifanekiso</p> <p>Nxulumanisa nobuGcisa Bokubona</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Peyinte kwiphephandaba ukusuka ekunene nasekhohlo. 	<p>Amaphandaba amabini kumfundi ngamnye</p> <p>Ipeyinti nebhrashi</p>	


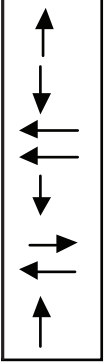
Iveki yama- 28	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa
<p>4.3</p> <p>Ubunzima</p>	<p>Thelekisa, ulandelelanise izinto eziphathekayo ngokwenza usebenzisa isigama esifanelekileyo esicacisayo:</p> <ul style="list-style-type: none"> - ubunzima imizekelo, ikhaphu khaphu, inzima, ikhaphu khaphana, inzinyana • Fundisa ingqiqo- “ubunzima” imizekelo - ukuthatha umlinganiselo wobunzima (ukuveyisha) kuthetha ukuba into inobunzima obungakanani - ikhaphu khaphana/ inzinyana <p>Ukuthatha umlinganiselo wobunzima kuthetha ukuba into inzima kangakanani.</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Abafundi mabaqikelele ubunzima bezinto:</p> <ul style="list-style-type: none"> - Bamba ezi zinto zilandelayo, enye kwisandla ngasinye ukwenzela ukuba baqikelele ukuba yeyiphi enzima okanye ekhaphu khaphu, imizekelo <ul style="list-style-type: none"> o Ilitye nebhloko yokwakha. o Ikari yokudlala yeplastiki nemoto yokudlala yentsimbi. o Inkonkxa/ itoti yekofu nebhottle yesiselo. o Ibhola enkulu yerabha neyekhilikithi. <p>Abafundi badla ngokucinga ukuba izinto ezinkulu zezona zisindayo xa kuthiwa mabaqashele phakathi kwee obhjekthi ezimbini.</p> <ul style="list-style-type: none"> - Fundisa isikali, umzekelo- weyisha izinto ukubonisa impendulo echanekileyo. - Buza imibuzo enje nge “yeyiphi into enzima/ ekhaphu khaphu? Abafundi mabakhangele izinto ezinzima nezikhaphu khaphu eklasini kunezi bebezweyishile. - Qinisekisa ukuba zikhona izikali zokuweyisha ngexesha labo lokudlala ukwenzela ukuba baqhuba umsebenzi wokuweyisha. - Makubekho isikali kwikona yendlu yokudlala ukwenzela ukuba baweyishe ukuba zingaphi iibhloko eziweyisha ngokufanayo, umzekelo, iapile. 	<p>Usuku olu- 1</p> <p>Khetha imisebenzi emibini okanye emithathu.</p> <p>Izinto ezinokwakheka kuka 3-D eziziindidi zobunzima, umzekelo, iibhloko zeLego, iithoyi, iibhloko zokwakha, inkonkxa, izikhongozeli, njl.</p>
		<p>Isikali</p> <p>Ungazenzela isikali esilula:</p> <ul style="list-style-type: none"> - Uzakufuna ihengari yeplastiki ebhijelweyo, - lithabhu ezimbini zemajerini okanyeibhottle yecoke nee ziitringi. - Gqobhoza imingxuma emibini echaseneyo kwithabhu yemajerini/ iibhottle zecoke. - Ncamathisela iithabhu/ iibhottle ekugqibeleni kwehengari. – Uzakuba nesikali. - Xhoma ihengari esikhonkwaneni okanye kwihuku abafundi mabaqalise ukuveyisha – - Bonisa abafundi ukuba ihengari kufuneka ilingane rhoqo xa bezakuveyisha.



Ivesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqukelelweyo
<p>Iveki 29</p> <p>Isihloko</p> <p>1.1</p> <p>Ukubala izinto</p> <p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Ukubethelela ulwazi olifundiweyo ngamanani ukuqala ku- 1 ukuya ku -7 <p>Ngomlomo: Bala izinto yonke imihla uyo kuma kwi -7. Bala phambili nasemva uyokuma kwi -7. Ukubala ngokungenantsingiselo ukuqala ku-1 uyokuma kwi-10.</p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawo” Qhwaba kaninzi...YIMA. Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma ku- 7 Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p> <p>Ukusebenzisa izinto eziphathekayo eziokwakheka kuka 3-D Abafundi maba:</p> <ul style="list-style-type: none"> - Qokelele amasebe. Wagcine ekilasini ukwenzela xa befuna ukuwasebenzisa kwakhona. - Sebenzisa awakho amasebe, imizekelo ukubala isimboli u -5 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>okanye</p> </div> <div style="text-align: center;">  <p>okanye</p> </div> <div style="text-align: center;"> <p>njl-njl.</p> </div> </div>	<p>lingoma nezicengcelezo zamanani.</p>	<p>Usuku olu- 1</p>
<p>Abafundi maba:</p> <ul style="list-style-type: none"> • Sebenzise iiseti zamakhadi abo anamanani u -1 ukuya ku -7.. • Mabazobe izinto zamanani ngokomyalelo katitshala, umzekelo zoba izangqa ezibini. • Mababale ukuya kwinani abaliniweyo, umzekelo utitshala ubiza inani u-3. Abafundi mabaqhubeka ukubala... ne, ntlanu, ntandathu. • Ngexesha lokutya utitshala makabuze: “Bangaphi abafundi abanezonka ezimdaka? Bangaphi abanezonka ezimhlophe? Ingaba ngabafundi abanezonka ezimhlophe aBangaphezulu kunabanye? Zeziphi ezininzi/ ezimbawo?” • Utitshala upakisha izinto etafileni. Abafundi mabaqikelele ukuba zingaphi izinto ezipakishiweyo. Mabazibale emva koko. 	<p>Umfanekiso nonotsheluzo abanamachokoza ano 1 ukuya kwi -7</p> <p>Isimboli yamanani nonotsheluzo abano -1 ukuya ku -7.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>Umfanekiso wezinto ezisiXhenxe</p>  </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>7</p> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <p>IsiXhenxe</p> </div> </div> <p>Iphepha nekhrayoni</p>	

Iveki 29	Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)	
Isihloko	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa
<p>1.3</p> <p>Iisimboli zamanani namagama amanani</p>	<p>Nakana iisimboli zamanani namagama amanani ezibandakanya u -1 ukuya kwi-7</p> <p>Ngomlomo: Bala izinto yonke imihla uyo kuma kwi-7.</p> <p>Bala ukuya phambili, ubale ukubuya umva uyokuma kwi -7.</p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawo”</p> <p>Qhwaba kaninzi... YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla aye kuma kwi -7</p> <p>Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Beka amakhadi esimboli amakhulu eklasini okanye ngaphandle kwindawo yokudlala. - Biza le ndawo ngokuba li “Lilizwe lamanani’ abafundi bona zii “nkosi namakhosazana amanani” beka isithsaba kumfundi ngamnye ezenziwe ngamakhadibhodi, zinanamanani abhaliweyo ngokucacileyo.. - Nika abafundi imiyalelo enje ngo: <ul style="list-style-type: none"> o Bonke abafundi abanxibe bomvu mabatsibe kabini. o Bonke abafundi abaneenwele ezinde , mabachwechwe ukuya kuma ku- 6. 	<p>usuku olu- 1</p> <p>lingoma nezicengelezo zamanani.</p> <p><input type="text" value="3"/> <input type="text" value="5"/> <input type="text" value="2"/></p> <p>Amakhadi amakhulu amanani aneesimboli</p> <p>Izithsaba ezaneleyo zabafundi ezenziwe ngamakhadibhodi, ezinanamanani abhaliweyo.</p> 
	<p>Sebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Zoba amachaphaza ngokwenani elinikwe ngutitshala, umzekelo zoba amachaphaza amabini. Phinda ude uye kuma ku-7 - Yiba neeseti zeesimboli zamanani ezininzi namakhadi amagama amanani.Nika umfundi ngamnye ikhadi. Utitshala uphakamisa ikhadi abafundi abanamakhadi afana nelakhe mabaphakise awabo. - <i>Ingcobiso:</i> quka abafundi ukwenza awabo amakhadi. - Dlala imidlalo yokutshatisa isimboli yamanani namagama amanani.  	<p>Iphesha nekhrayoni</p> <p>Iseti yamakhadi yamanani ano - 1 ukuya ku -7</p> 

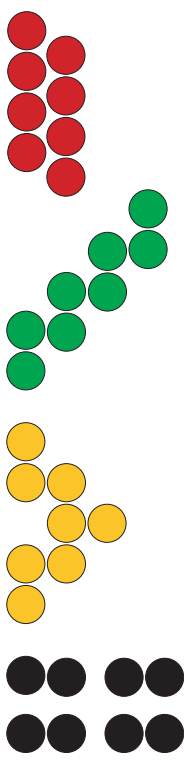
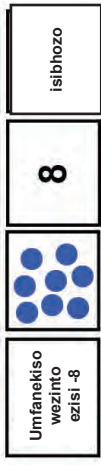
Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Iveki 29	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
<p>Isihloko</p> <p>1.7 Ukudibanisa nokuthabatha</p>	<p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Sombulula ngomlomo iingxaki zokudibanisa nokuthabatha ezineempendulo ukuya ku -7. <p>Ukuthetha: bala izinto yonke imihla uyo kuma ku -7. Bala phambili nasemva uyokuma ku -7.</p> <p>Ukubethelela iingqiqo ezingu “zininzi/ zimbawo” Qhwaba kaninzi...YIMA. Qhwaba izandla amaxesha ambalwa. Utitshala uqhwaba izandla aye kuma ku- 7. Buza imibuzo, ngabaphi abaqhwabe <i>kakhulu/ kancinci?</i></p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Jonga kwiveki yama- 24 nama- 27 ngemisebenzi. - Sebenzisa ezakho iimbono ukunika abafundi olunye ulwazi ngenani u -7 besebenzisa imizimba yabo. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Jonga kwiveki yama- 24 nama- 27 ngemisebenzi. - Sebenzisa ezakho iimbono ukunika abafundi olunye ulwazi ngenani u -7 besebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D. 	<p>lingoma nezicengelezo zamanani.</p> <p>Izinto zokubala</p>	<p>Usuku olu- 1</p>

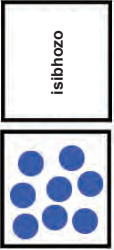
Ixesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)			
Iveki 29	Amanqaku angangcaciso	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqikelelweyo
Isihloko			Usuku olu- 1
3.1 Indwo-bume, ukufumana indawo kunye nembonakalo	<p>Ukulandela izalathiso ukuhamba okanye ufumana indawo ethile kwisithuba esithile</p> <ul style="list-style-type: none"> • Phuhlisa ulwazi lokwalathisa ngokusebenzisa amakhadi oonotsheluzi beentolo netshati yeentolo. <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Abafundi mabahambe ngeendlela ezahlukeneyo:</p> <ul style="list-style-type: none"> - ukuya emnyango, - ukuya efestileni, - ukuya ekoneni yencwadi, njl-njl. <p>Ukusebenzisa zinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Zobe isi- 8 esithe tyaba ebhodini. Qinisekisa ukuba abafundi bawela imigca yabo ephakathi. 	Ibhodi	
	<p>Sebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Abafundi mabenze ngokwamaqela amancinci okanye bodwa:</p> <ul style="list-style-type: none"> - Beka amehlo konootsheluzi uze use ingalo yakho kweli cala ekhonjwe lutolo uthethe eli xa usenzayo, umzekelo- xa umfundi ekhupha ingalo yakhe, kufuneka athi” kunene”. - Ukwenza intshukuma ya phezulu nasezantsi umfundi angasebenzisa nokuba yeyiphi ingalo. - Bonisa isalathiso kwitshati yentolo. - Ncamathisela imizila yeenyawo yalathe ngasemnyango. <p>Isigama:</p> <p>Phezulu/ ezantsi;phakathi/ phandle; ngaphezulu/ ngaphantsi; phambili/ emva; phambi ko/ emva; kwicala elinye/ kwelinye icala; emva ko; ekhohlo/ ekunene</p>	<p>Unotsheluzi onotolo olunye. Guqula oonotsheluzi bajonge kwiindlela ezahlukeneyo.</p> <p>Itshati yotolo (iphowusta yotolo ngokweendlela ezahlukeneyo.)</p> 	

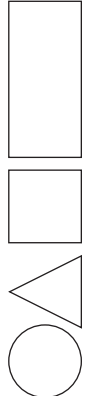
Ivesha lokufundisa ekucetyiswa ukuba lisetyenziswe: Umsebenzi weklasi omnye ofundiswa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (imisebenzi yeMathematika emi ± 5 ngeveki)	Izixhobo ezicetyiswayo/ ezinokusetyenziswa	Ixesha eliqukelelweyo
<p>Iveki 29</p> <p>Isihloko</p> <p>4.3 Ubunzima</p> <p>Amanqaku angangcaciso</p> <ul style="list-style-type: none"> • Bethelela ulwazi olufunyenwe kwiveki yama- 28 ebandakanya ubunzima: “eyona ikhaphu-khaphu / eyona inzima” <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Abafundi maba:</p> <ul style="list-style-type: none"> - Thelekise ubunzima bezikhongozeli ezintathu ukuya kwezintlanu (umzekelo 400g kwiinkonkxa ezingenanto) zibe nesanti enobunzima obuhlukeneyo, ukwenzela zibe nobunzina obahlukeneyo. - Zibeke ngokobukhaphu khaphu nobunzima ngokuva umlinganiselo. Emva koko, mabasebenzise isikali ukuqonda ukuba abafundi bajonge ukuba iimpindulo zabo bezichanekile na. - lingcebiso: <ul style="list-style-type: none"> Linga ukuba zingaphi iintsinjana ezingqukuva zokukala okanye izikhonkwane ezinobunzima obufanayo.Kungasetyenziswa ezinye izinto. <p>Utitshala ubeka izinto ezinobunzima obahlukeneyo kwizikhongozeli ezifana ngqo, umzekelo, izikhongozeli zesonka samasi; ibhloko nebhola yetenesi.</p> <p>Bafundi maba:</p> <ul style="list-style-type: none"> - Ve umohluko wobunzima phakathi kweeobhjekthi ezimbini, qajela ukuba yeyiphi ekhaphu khaphu okanye enzima. - Sebenzisa isikali ukufumana impendulo echanekileyo. - Cel'umngeni kubafundi bafumane izinto eklasini ezinobunzima obulinganayo. <p>Ipitsi lesanti nendawo yokudlala yamanzi mayibe ziindawo ezibethelela ezinje ngo ikhaphu khaphu/ inzima/ inzima ngakumbi esebenzisa izikhongozeli ezahlukeneyo, isikali, isanti emanzi neyomileyo.</p> <p>NB: Hlala nabafundi ngeli xa bathethayo, baxoxayo, naxa bacacisayo.</p>	<p>linkonkxa ezingenanto ezinomlinganiselo olinganayo</p> <p>Isikali</p> <p>Izinto ezinje ngebhloko zeLego</p> <p>Izinto ezahlukeneyo ngobunzima ezinje ngeentsinjana zokukala nezikhonkwane.</p> <p>Izikhongozeli zesonka samasi, enye ibe nebhloko enye inebhola yetenesi.</p> <p>Ipitsi lesanti</p> <p>Isitya somdlalo wamanzi, isikhongozeli okanye isikhongozeli esivulekileyo sokusela iinkomo.</p>	<p>usuku olu- 1</p>

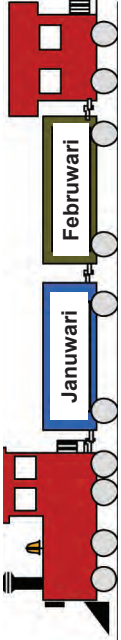
Iveki yama-30	Ukusebenzisa iveki yama-30 ukuqwalasela imiba abangekayibambi nezinto ezichongwe njengeziyimiqobo (izidingo) ekufundeni
Inkalo yomxholo	Imilinganiselo yoHlolo
Amanani, ukuBala noLwalamano	<p>Qikelela nokubala ngokucengezeleza ukuya kwi-7 (amaculo nezicengezelezo ngamanani zidityanisiwe ukuphuhlisa ingqiqo ngamanani)</p> <p>Bala ubuya umva nokubala usiya phambili (1-7)</p> <p>Yazi ukuba ngawaphi amaxesha okuqhweba angaphezulu/ angaphantsi</p> <p>Nakana amanani kwiimeko eziqhokelekileyo umz. Ubudala ,irejista (isigama esisetyenziswa xa kufundwa ngamanani) (UkuHlola kwakhona)</p> <p>Chonga imifanekiso yamanani namakhadi anamachaphaza ukuya kwinani lesi-7</p> <p>Zazi isimboli zenani 5, 6, 7</p> <p>Nakana amagama amanani u-ntlanu, ntandathu, sixhenxe</p> <p>Yahlula phakathi kuka ngaphezulu, ngaphantsi nozilingana, ninzi nombalwa ukuya kwi-7</p> <p>Nakana imibala kwakunye neentlobo zezilwanyana kwimali engamaphepha yaseMzantsi Afrika.</p> <p>Sebenzisa izixhobo eziphathekayo</p> <p>Cacisa ingcinga yakho ngamazwi nangemizobo okanye izinto eziphatwayo</p> <p>Ukusombulula ngomlomo iingxaki zokudibanisa nokuthabatha ukuya kwi-7</p> <p>K opa, ukwandisa nokuyila ezakho iipateni usebenzisa imifanekiso</p> <p>Yazi indawo-bume yezinto ezi-2 nangaphezulu ngokunxulumeneyo-ngaphambili kwe.ngasemva,ngaphezulu kwe,phezu,ngaphantsi,ezantsi,ecaleni kwe,embindini,ekhothlo,ekunene</p> <p>Landela imiyalelo kwibhodi yeepegi</p> <p>Zazi izalathiso kwitshathi yezalathiso</p> <p>Yakha usebenzisa umzekelo wesakhiwo</p> <p>Kopa isakhiwo kwikhadi eliyiliweyo okanye lomfanekiso</p> <p>Yakha iipazili ubuncinci izicwili ezinga-18</p> <p>Nakana ,ukuchonga nokuxela isikwere</p> <p>Qonda iimilo azifundileyo (ulwazi lweemilo)</p> <p>Qikelela nokuthatha umlinganiselo wobude bezinto ezahlukileyo</p> <p>Qonda amagama abonakalisa ubunzima "lula,nzima; lula kunenye, nzima kunenye; lula kuzo zonke, nzima kuzo zonke"</p> <p>Qonda amagama abonakalisa umthamo "engenanto, egcweleyo, ngaphezulu kune, ngaphantsi kune"</p> <p>Yazi ukuqokelela, ukuhlela, ukuzoba, ukufunda nokubonisa izinto (ukucaulula) ngokophawu oluthile</p>
Iipateni, neefankshini	1.6
ISithuba neMilo(Ijyometri)	<p>Ubuchule bokusombulula iingxaki zezibalo</p> <p>1.7 no 1.13 Ukudibanisa nokuthabatha</p> <p>2.1 Iipateni zejyometri</p> <p>3.1 Indawo-bume,ukufumana indwawo nembonakalao</p> <p>3.2 Izinto ezinokwakheka kuka 3-D</p> <p>3.3 Izinto ezinokwakheka kuka 2-D</p>
Umlinganiselo	<p>4.2 Ubude</p> <p>4.3 Ubunzima</p> <p>4.4 Umthamo/ivolumu</p>
Ukusebenzisa ulwazi oluqokelelwayo	<p>5.1 Ukuqokelela, nokuhlela izinto</p> <p>5.2 Ukubonisa</p> <p>5.3 Ukuxoxa nokunikezela ingxelo yengqokelela yezinto ezihleliweyo</p>

IKOTA YESI- 4 IMATHEMATIKA IBANGA LABAQUALAYO(R)												
Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)												
Isihloko	Amanqaku (notes) angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo									
1.1 Ukubala	<ul style="list-style-type: none"> • Ukwazisa intsingiselo yenani i- 8 <p>Ngomlomo: Ukubala izinto zemihla ngemihla ukuya kwi-8 Bala usiya phambili nokubuya umva ukuya kwi-8 Bala ngokucengeleza 1-10</p> <p>Yazisa ukubala ngoonombini usebenzisa isicengelezo samanani</p> <p>Bethelela ukubala ngolandelelwano: utitshala ubeka izinto ezine emgceni. Ukhomba kwinto nganye ngeli xa abalayo, eyokuqala, eyesibini, eyesithathu, eyesine.</p> <p>Bethelela ingqiqo ka “uninzi nombalwa” Qhwaba izandla amaxesha amaninzi.....YIMA. Qhwaba izandla amaxesha ambalwa. Utitshala uqhwaba izandla kasi-8 Buza umbuzo ukuba kukuphi okona kuqhwaba kungaphezulu / kungaphantsi.</p>	<p>lingoma zamanani nezicengelezo.</p> <p><i>Bini, ne, thandathu, bhozo</i> <i>Indoda enye esangweni</i> <i>Uthi ungxamile</i> <i>Bini, ne, thandathu, bhozo</i></p> <p><i>Utitshala makasebenzise eyakhe ingoma yamanani nesicengelezo</i></p>	Usuku olu- 1									
	<p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Babale izinyathelo ezisibhozo ngoku ngeli xa bajikeleza iklasi. - Babonise iminwe esibhozo. - Yenza abafundi: - Basebenzise ileli yenani elele phantsi (xwesileyo) - Ukuqinisekisa ukuba abafundi basoloko beqala kwi-0 (qanda). - Bachonge isimboli zamanani ngeli xa bahamba kumgca- manani - Bahambe kwilungu ngalinye ngoku babala ngokucengeleza(counting rhythmically) 	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td> </tr> </table> <p>Ingqokolela yoonotsheluza besimboli yamanani u-1 ukuya kwi- 8.</p>	0	1	2	3	4	5	6	7	8	
0	1	2	3	4	5	6	7	8				

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku (notes) angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>1.3 Iisimboli zamanani namagama amanani</p>	<p>Ukunakana iisimboli zamanani namagama amanani Ukusebenzisa izinto ezinokwakheka kuka 3-D Yenza abafundi:</p> <ul style="list-style-type: none"> - Babale izinto eziseklasini ezibandakanya amanani u-1 ukuya kwi-8. - Babale ngezinto zokubala ukuya kwi-8. - Ukukhulisa ulwazi ngocino-manani ngengqondo ngokwenza abafundi bapakishe izixhobo zokubala ezisi- 8 okanye naziphi na izinto ngeendlela ezahukeneyo umz.  <p>Xa kubalwa, inani lezinto malingachatshazelwa bubungakanani, okanye ubume bendawo, okanye nokuba zezohlobo olunye. Umzekelo:</p> <ul style="list-style-type: none"> - Cwangcisa amaqhosha a-8, ipensile ezi- 8, oohupu aba- 8, abafundi aba-8, njl. - Bala izinto ngokulandelelana okwahlukileyo umz. zibale ziqaqelene, zisondelelene, zisemgceci okanye zipakishiwe. <p>Sebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso Yenza abafundi:</p> <ul style="list-style-type: none"> - Badlale imidlalo ngokunxulumanisa inani lezixhobo zokubala kunye namagama amanani, isimboli yenani, amakhadi amachaphaza nemifanekiso ebandakanya inani i1-8. - Bakhuphele inani usi-8 ngekhrayoni. 	<p>Inggokelela yezinto ezi-8 eziseklasini Izinto okanye izixhobo zokubala</p> <p>Izixhobo zokubala ezi-8 okanye izinto ezisi-8</p> <p>Unotsheluzi onesimboli yenani negama lenani, amachaphaza kunye nemifanekiso umz.</p>  <p>iikhrayoni izixhobo zokubala</p>	<p>Usuku olu- 1</p>

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku (notes) angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
1.4 Ukuchaza, ukuthlekisa nokuhlela amanani	<ul style="list-style-type: none"> Ukusebenzisa inani usi-8 kwimeko eqhelekileyo Ngomlomo: Ukubala izinto zemihla ngemihla ukuya kwi-8. Ukubala usiya phambili nokubuya umva ukuya kwi-8. Ukubethelela ukubala ngezi- 2 usebenzisa izicengcelezo zamanani Ukubethelela ingqiqo ngo “uninzi nombalwa” Qhwaba izandla amaxesha amaninzi.....YIMA. Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla ka-8. Buza umbuzo ukuba kukuphi okona kuqhweba kungaphezulu / kungaphantsi. <p>Ukufunda usebenzisa intshukumo yomzimba Yenza abafundi:</p> <ul style="list-style-type: none"> - Benze inani usi-8 ngeminwe yabo. - Bakhe inani ngomtya okanye udongwe. - Babhale iisimboli zamanani kwisithebe(tray) sentiabathi - Beka amakhadi esimboli yamanani amakhulu ngokulandelelanayo kumgangatho ukuya kwi-8. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Utitshala unika umfundi ngamnye iimbotti ezi- 8, noonotsheluzi abanamachaphaza asi- 8. Yenza abafundi:</p> <ul style="list-style-type: none"> - Bapakishe ukhozo lwembotti kwichaphaza ngalinye elikunotsheluzi. - Babale iimbotti. - Banxulumanise unotsheluzi wechaphaza kwigama lenani nakwizixhobo zokubala. 	<p>lingoma zamanani nezicengcelezo</p> <p>Umya/ iwulu okanye udongwe. Isithebe esinentlabathi</p> <p>Ingqokolela yamakhadi amakhulu aneesimboli zamanani</p> <p>limbotti ezisibhozo kumfundi ngamnye unotsheluzi onamachaphaza, unotsheluzi onegama,nezixhobo zokubala</p> 	Usuku olu- 1







Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Iveki yama- 31	Amanqaku (notes) angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
Isihloko 3.3 Izinto ezinokwakheka kuka-2-D	<p>Ukunakana, ukuchonga nokuxela izinto ezinokwakheka kuka 2-D eklasini nasemfanekisweni</p> <ul style="list-style-type: none"> - Ukufundisa uxande <p>Ukufunda usebenzisa intshukumo</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Benze uxande olunamacala amane angqalileyo. - Bakhe iimilo ngemizimba yabo umz. Abafundi aba- 6 bakha uxande ngemizimba yabo. - Bakhe uxande besebenzisa iminwe yabo . - Benze/ bakhe uxande nezijungqe zewulu okanye udongwe. - Bahambe ngaphandle kungqameko lwemilo yoxande.Njengokuba behamba abafundi bathi "ndihamba ecaleni koxande- linye icala elide, linye icala elifutshane, elinye icala elide, elinye icala elifutshane. - Beva iimilo ngezandla.Basebenzisa iimilo zobungakanani obukhulu okanye babeka iintlobo zeemilo kwingxowa empamphwayo (<i>feely bag</i>). Yiba nengqokolela yamakhadi aneemilo ezizotywe kuwo.Umfundi uva iimilo engxoweni aze ayitshatise namakhadi. - Bazoba iimilo yoxande emoyeni, emhlabeni/ kumgangatho (ngetshokhwe) ekugqibeleni bazobe ephepheni. 	<p>Amakhadi emidlalo akhulisa unakano lweemilo.</p> <p>Uboya okanye udongwe</p> <p>"Ingxowa empamphwayo" (Feely bag) eneentlobo zemilo zejyometri.</p> <p>Ukutshatisa amakhadi neemilo ezizotywe kuwo.</p> <p>Iphepha elibukhulu buyi A4 nekhrayoni</p>	<p>Usuku olu- 1</p>
	<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D ngokobungakanani,umbala nemilo</p> <p>Yenza abafundi bakhangele izinto eziziingxande eklasini.</p> <p>Ukusebenzisa iimilo/imifanekiso ezinokwakheka kuka 2-D</p> <ul style="list-style-type: none"> - Ukuchonga imilo eluxande kwimifanekiso - Ukuchonga zonke iimilo ezazisiwayo ukuza kuthi ga ngoku kwimifanekiso. <p>Ukuhlela izinto ezinokwakheka kuka -3-D no- 2-D ngokobungakanani, umbala nemilo.</p> <ul style="list-style-type: none"> - Ukuhlela ingqokolela yezinto ngokobungakanani, umbala nemilo. 	<p>Izinto ezibuxande eklasini.</p> <p>Zonke iimilo ezifundiweyo ukuza kuthi ga ngoku:</p> <p>iintlobo zemifanekiso ezineemilo kuzo.</p> 	



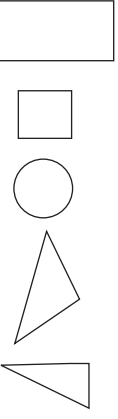
Iveki yama- 31 Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>Isihloko</p> <p>5.1 Ukuqokelela nokuhlela izinto</p>	<p>Amanqaku (notes) angcaciso</p> <ul style="list-style-type: none"> Ukubethelela ingqiqo yokusebenza ngolwazi oluqokelelwayo ngokuqokelela izinto eklasini okanye kokusingqongileyo ngokweempawu ezinikiweyo, umzekelo, imihla yokuzalwa yabafundi . Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Ukuqokelela nokuhlela ulwazi <ul style="list-style-type: none"> Ukusebenzisa itshati yemihla yokuzalwa, ukuchaza imihla nenyanga yokuzalwa.. Abafundi bancedisa ekwenzeni igrafu ukubona ukuba yeyiphi inyanga yonyaka ebonakala inemihla yokuzalwa emininzi. Utitshala uzoba igrafu yeenyanga ezili-12 zonyaka. Ngoncedo lukatitshala abafundi babeka amagama abo belandela inyanga yomihla wokuzalwa komifundi ngamnye . 	<p>Ubude bexesha obuqikelelwayo</p> <p>Itshati yomihla wokuza lwa</p> 
<p>5.2 Ukubonisa ulwazi lwengqokelela yezinto ezihleliwayo</p>	<p>Amanqaku (notes) angcaciso</p> <ul style="list-style-type: none"> Ukubonisa ulwazi lwengqokelela yezinto ezihleliwayo 	<p>Ikhadi elinamagama abafundi .</p> <p>Zoba imiqolo eli-12 kurucu omkhulu wephepha. Bonisa ngekhad i lamagama iinyanga abafundi abakhumbula ngazo imihla yokuzalwa. Sebenzisa ishiti ezi± 3 zephepha elibukhulu bungama A2 elizotywe imiqolo.</p>
<p>5.3 Ukuxoxa nokunika ingxelo ngengqokelela yezinto ezihleliwayo</p>	<p>Amanqaku (notes) angcaciso</p> <ul style="list-style-type: none"> Ukuxoxa nokunika ingxelo ngengqokelela yezinto ezihleliwayo 	<p>Ikhadi elinamagama abafundi .</p> <p>Zoba imiqolo eli-12 kurucu omkhulu wephepha. Bonisa ngekhad i lamagama iinyanga abafundi abakhumbula ngazo imihla yokuzalwa. Sebenzisa ishiti ezi± 3 zephepha elibukhulu bungama A2 elizotywe imiqolo.</p>

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku (notes) angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
1.1 Ukubala izinto	<p>• Ukubethelela a ulwazi olufunyenwe kwiveki yama-31 oluquka inani elingusi- 8.</p> <p>Ngomlomo: Ukubala izinto zemihla ngemihla ukuya kwi-8 Ukubala usiya phambili nokubuya umva ukuya kwi-8 Ukubala ngokucengeleza u-1 ukuya kwi-10</p> <p>Ukubethelela ukubala ngezi- 2 usebenzisa izicengelezo zamanani</p> <p>Ukubethelela “uninzi nombalwa”</p> <p>Qhwaba izandla amaxesha amaninzi..... YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla ka-8 Buza umbuzo ukuba kukuphi okona kuqhweba kungaphezulu / kungaphantsi</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Makudlalwe umdlalo:</p> <ul style="list-style-type: none"> - Utitshala udlala ngesixhobo- umz. Igubu - Abafundi bayajikeleza . - Xa igubu liyeka ukukhala, utitshala ubiza inani eliphakathi kuka- 1 ne-8 ze abafundi bazilungise ngamaqela amancinane umz. Utitshala ubiza inani eli-8 baze abafundi bazilungise ngamaqela anabafundi aba-8 - Bonisa iminwe e-8 kwizandla zakho zozibini. - Yakha ingqokelela nabafundi. Zoba isangqa esikhulu entlabathini. Yenza abafundi bakhe amaqela abafundi aba-8 ngaphakathi kwesangqa. Amaqela abafundi abasi-8 bangenza umsebenzi kunye ngemini umz. Badlale kwikona yebhloko, baye kwindawo yomsebenzi wobuGcisa (art area) njl. 	lingoma nezicengelezo zamanani	Usuku olu- 1

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
1.1 Ukubala izinto	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Yenza abafundi:</p> <ul style="list-style-type: none"> - Basebenzise izixhobo zokubala ukunakana ukuba ngawaphi amanani eza ngaphambi kwezi-8 nasemva kwezi- 5? Liliphi inani eliphakathi kwezi- 6 nosi-8 ? - Babale izinto ngambini: <ul style="list-style-type: none"> o Izibini zezihlangu o Izibini zeekawusi o Izibini zamehlo amabini, o Izibini zamacici, o Izibini zeendlebe o Izibini zemilenze <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Xa kuthathwa irejista yobukho utitshala ubuza:“Ingaba umfundi onenombolo yendlu okanye idilesi ulapha?” umfundi makaphendule ngokubonisa ukuba “ulapha”. - Phinda ngemini elandelayo ngeenombolo zemfono-mfono neenombolo zesei(cell). 	<p>Izixhobo zokubala</p> <p>izibini zezihlangu, zeekawusi, zamacici</p> <p>Amakhadi aneenombolo zomxebe needilesi</p>	

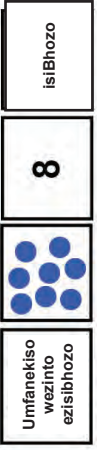
Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>1.7</p> <p>Ukudibanisa nokuthabatha</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Ukusombulula ngomlomo izibalo zamanani zamazwi ezibandakanya inani eli- 8 <p>Ukufunda usebenzisa intshukumo yamalungu omzimba</p> <ul style="list-style-type: none"> - Utitshala uncedisa abafundi ukwenza iqela labafundi aba-6 nelinye iqela elinabafundi aba- 2. - Dibanisa amaqela ama- 2 ukwenza iqela eli- 1. - Buza abafundi ukuba Bangaphi abafundi kwiqela elidityanisiweyo? 6 no- 2 →8.(utitshala uthi: u- 6 no zi- 2 benza i- 8) - Yenza iqela labafundi aba- 8. Thatha abafundi aba- 3 benze iqela elincinci. Bangaphi abafundi abashiyeke kwiqela elikhulu? Ba-8 uthabathe aba- 3 →5. - Khetha abafundi ababini usebenzisa isicengelezo sokubala. - Beka amasebe ama-4 kwisandla esinye somfundi namasebe ama-4 kwesinye isandla somfundi. Mangaphi ewonke amasebe ngoku? U-4 no 4 → 8. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Nika umfundi ngamnye amasebe a-8 .</p> <ul style="list-style-type: none"> - UTshidi unamasebe ama-6 umhlobo wakhe unamasebe ama-2. Mangaphi amasebe abanawo ewonke? u - 6 no - 2 → 8. - UMonica unamasebe asi-8. Ulahle amasebe ama-2.Ushiye amasebe amangaphi uMonica? Asi- 8 uthabathe 2 → 6. <p>Ukusebenzisa imilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Utitshala ubeka imifanekiso emi-2 kwibhodi yeflaneli .Wongeza eminye imifanekiso emi-5. Mingaphi imifanekiso ekwibhodi yeflaneli ngoku? Uzi-2 nozi 5 → 7. - Beka iimilo ezisi-8 kwibhodi yeflaneli. Thabatha iimilo ezi-5 kwibhodi yeflaneli. Kushiyeke zingaphi? .zisi-8 uthabathe 5→3. 	<p>Amaqela abafundi</p> <p>Amasebe</p> <p>Isicengelezo sokubala:</p> <p>Amasebe</p> <p>Isicengelezo: Yenza esakho</p> <p>(1, 2, 3, 4, 5</p> <p>Ndakha ndabambisa intiazi iphila</p> <p>6, 7, 8, 9, 10</p> <p>Ndabuya ndayiyeka yahamba)</p> <p>Amasebe</p> <p>Imifanekiso/neemilo zebhodi yeflaneli.</p>	<p>Usuku olu- 1</p>

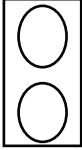
Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>2.1 Iipateni zejyometri</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Ukukopa nokwandisa iipateni eziviwayo <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Abantwana bahamba nesingqi somculo ngemizimba yabo umz..</p> <ul style="list-style-type: none"> - ngqisha, ngqisha, ngciloza, ngciloza..... - Tsiba ngomlenze omnye, tsiba ngemilenze emibini, tsiba ngemilenze emibini..... <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D .</p> <p>Nxulumanisa nobuGcisa beQonga, umculo kwiZakhono zoBomi</p> <p>Abafundi bahamba nesingqi somculo ngezandla zabo baphathe amathanga abo umz.</p> <ul style="list-style-type: none"> - Qhwaba, qhwaba, betha, betha (qhwaba ngezandla ubethe amathanga ngezandla. - Utitshala wenza amakhadi esingqi abafundi bawaphinde ngokuqhwaba isingqi (basebenzise izandla ukuqhwaba neenyawo ukungqisha) <p>Umz..</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">  TT TT TT TT TT TT </div> <div style="border: 1px solid black; padding: 5px; text-align: center;">      </div> </div> <ul style="list-style-type: none"> - qhwaba, qhwaba, ngqisha, ngqisha, - qhwaba ukhwaze, qhwaba, khwaza..... 	<p>Isidlali mculo (CD)</p> <p>Ukubethana kwamalungu omzimba</p>	<p>Usuku olu- 1</p>

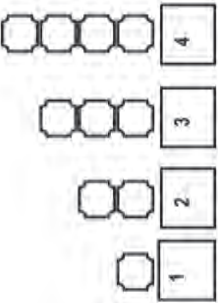
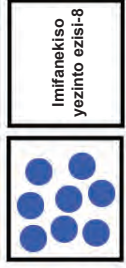
Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Iveki yama- 32	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>Isihloko</p> <p>3.3 Izinto ezinokwakheka kuka-2-D</p>	<p>Ukunakana, ukuchonga nokuchaza iimilo ezinokwakheka kuka 2-D eklasini</p> <ul style="list-style-type: none"> • ukubethelela ulwazi ngoxande <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Benze/bakhe iimilo ngemzimba yabo umz.abafundi aba-4 bakha uxande ngemzimba yabo. - Bakha uxande besebenzisa iminwe yabo. - Benza uxande besebenzisa izinti ezi-6 zematshisi.  <ul style="list-style-type: none"> - Benza/bakha uxande ngezijungqe zewulu okanye udongwe. - Bahamba ngaphandle kwemilo yoxande. - Beva iimilo ngezandla. Beka iimilo ezahlukeneyo kwingxowa empamphwayo("feely bag")Yiba nengqokolela yamakhadi okutshatisa azotywe iimilo. Abafundi beva iimilo engxoweni baze bayitshatise namakhadi. - Bazoba imilo yoxande emoyeni, entlabathini, kumgangatho/emhlabeni bagqibele ngokuzoba emoyeni. 	<p>Amakhadi emidlalo akhulisa unakano lweemilo. Izinti zematshisi</p> <p>Iwulu okanye udongwe.</p> <p>Ingxowa empamphwayo ("Feely bag") eneemilo zejyometri ezahlukileyo.</p>  <p>Quka iimilo ezinkulu nezincinane kunye noonxantathu bee-engile (angles)ezahlukeneyo kwingxowa empamphwayo umz.</p>  <p>Tshatisa ingqokelela yamakhadi ekuzotywe kuwo iimilo</p> <p>Iphepha elibukhulu buyi-A4 nekhayoni</p>	<p>usuku olu- 1</p>

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)				
Iveki yama- 32	Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	
	<p>3.3</p> <p>Izinto ezinokwakheka kuka 2-D</p>	<p>Amanqaku angcaciso</p> <p>Sebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Yenza abafundi bajonge izinto ezimile okoxande eklasini <p>Sebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Ukudlala umdlalo: “Yeyiphi elahlekileyo?”</p> <ul style="list-style-type: none"> - Ukubeka iimilo ezinokwakheka kuka 2-D (zingabingaphezulu kweemilo ezi- 5) kwiphethshana embindini wekhaphethi umz.iimilo ezikumdlalo we-Logi . - Xoxa ngemilo nganye nabafundi. - Nika abafundi ithuba lokufunda ngentloko iintlobo zeemilo ezikwiphethshana. - Abafundi bavala amehlo abo. - Utitshala ususa enye yeemilo. - Abafundi mabavule amehlo abo batshe imilo elahlekileyo. - Phinda inkqubo. - Ukukhuthaza ukukhuliswa kweemilo zejijometri ngokunika iintlobo zamakhadi zemidlalo enjenge “yintoni esesikwereni?” okanye nokuba nguuphi umdlalo. 	<p>Izinto ezibuxande eklasini.</p> <p>Iindidi zeemilo umz. Iimilo zelogi</p>	<p>Ubude bexesha obuqikelelwayo</p>

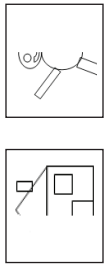
Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
1.3 Ukubala izinto	<p>Ukubethelela ulwazi olufunyenwe kwiveki yama-31 neyama-32 eziquka amanani u-1 ukuya kusi-8</p> <p>Ngomlomo: Ukubala izinto zemihla ngemihla ukuya kwi-8 Bala usiya phambili nokubuya umva ukuya kwi-8 Bala ngokucengezeleza u-1 ukuya kwi-10</p> <p>Bethelela ukubala ngezibini usebenzisa isicengezelezo samanani</p> <p>Bethelela ukubala ngolandelelwano</p> <p>Utitshala ubeka izinto ezi-8 emgceni. Ukhomba kwinto nganye ngeli xa abalayo, eykuqala, eyesibini, eyesithathu, eyesine, eyesihlanu.</p> <p>Bethelela ingqiqo “uninzi nombalwa”</p> <p>Qhwaba izandla amaxesha amaninzi.....YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla ka-8 Buza umbuzo ukuba kukuphi okona kuqhweba kungaphezulu / kungaphantsi.</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Abafundi basebenzisa imizimba yabo ukwakha isimboli yenani. - Utitshala wenza amanani kwimathiriyeli eyahlukeneyo enokuviwa ngabantwana umz. Iphepha lokukhuhla (sandpaper)/ udongwe/umtya. - Benza izicengezelezo/iingoma zamanani. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Ukusebenzisa izinto eziphathekayo ezinjenge bhloko nezilwanyana ezenziwe ngeplastiki. - Ukuzibala, ukuzihlela, ukubeka ezisibhozo emgceni nji. <p>Yahlula abafundi ngokwamaqela.</p> <p>Beka imfumba yezilwanyana zasekhaya embindini weqela ngalinye</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Basebenze ngababini eqeleni beqikelela ukuba zingaphi izilwanyana ezikwimfumba. - Isibini nganye sithatha ikhadi lenani ukutshatisa ingqikelelo yabo. - Babale elona nani lezilwanyana. - Isibini singafumana inkwenkwezi ibekwe kumabunzi abo. - Phinda ngokubeka inani elahlukileyo lezilwanyana embindini wekhaphethi. 	<p>lingoma nezicengezelezo zamanani</p> <p>Iisimboli zamanani amakhulu awenziwe ngephepha lokukhuhla</p> <p>Iibhloko nezilwanyana zokudlala zasefama zepplastiki</p> <p>Izilwanyana zasekhaya zepplastiki ezili-9</p> <p>Iseti zamakhadi eesimboli zamanani ezimbalwa.</p> <p>Iinkwenkwezi zokuvuza</p>	<p>Usuku olu- 1</p>

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>1.3 Iisimbolo zamanani kunye namagama amanani</p>	<p>Ukunakana nokuchonga iisimboli zamanani namagama amanani abandakanya amanani u-1 ukuya kwi-8</p> <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Tshatisa isimboli yenani kumfanekiso ochanekileyo. - Umfundi makaqonde ukuba iqela lezinto linganani elifanayo lezinto. 	<p>Umfanekiso noonotsheluzi beesimboli zamanani</p> <p>Izixhobo zokubala</p> 	
	<ul style="list-style-type: none"> - Abafundi mabakhombe kwinto nganye njengoko bebala. - Abafundi mabakwazi ukutshatisa into nanye umz.intliziyo enye nelanga. - Batshatise umfanekiso okunotsheluzi, unotsheluzi wamachaphaza, isimboli yenani, unotsheluzi wegama lenani, inani lezixhobo zokubala ezifanayo 	<p>Ingqokolela yamakhadi amanani equka amanana u-1 ukuya kwi-8</p>	

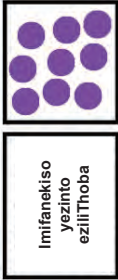
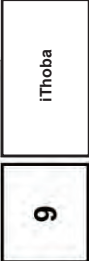

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>1.4 Chaza, uthethekile uze ulandelelanise</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Ukulandelelanisa nokuthlekisa ingqokelela yezinto kusetyenziswa “ungaphezulu kune/ngaphantsi kwe” no “zilingana” ukuya kwi-8 <p>Ngomlomo: Ukubala izinto zemihla ngemihla ukuya kwi-8</p> <p>Bala usiya phambili nokubuya umva ukuya kwi-8</p> <p>Bethelela ukubala ngezi- 2 usebenzisa izicengcelezo zamanani</p> <p>Ukubethelela ingqiqo ka “ninzi no-mbalwa”</p> <p>Qhwaba izandla amaxesha amaninzi..... YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla kasi-8</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala ubeka iibhloko ezisi-8 etafileni. Abafundi mabaqikelela inani leebhloko ngaphandle kokuzibala. - Utitshala ubuza: <ul style="list-style-type: none"> o “ingaba iibhloko zingaphezu kwesithathu?” o Abafundi bajonga impendulo yabo ngokubala iibhloko o “belusondele kangakanani uqikelelo lwakho?” <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Yakha iqela labafundi aba- 4. Nika iqela ngalinye izixhobo zokubala ezi-8 nephepha elizotywe izangqa ezibini ezikhulu. Biza izangqa ngeendlwane. - Abafundi babeka izixhobo zokubala kwindlwana nganye ngokomyalelo katitshala batsho ukuba zingaphi - Abafundi bathelekisa “iindlwana” baxele ukuba yeyiphi indlwana “engaphezulu kunenye”, “engaphantsi kunenye”, “efanayo” okanye enezixhobo zokubala “ezilinganayo”. 	<p>Iingoma nezicengcelezo zamanani iibhloko</p> <p>Izixhobo zokubala</p> <p>Iphepha elibukhulu buyi A4 elineendlwana ezimbini ezizotyweyo.</p> 	<p>Usuku olu- 1</p>

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>1.4</p> <p>Chaza, uthethekise uze ulandelelanise</p>	<p>Yahlula abafundi ngokwamaqela</p> <ul style="list-style-type: none"> - Nika iqela ngalinye iityhubhu zeyunifekisi ezincamathelanayo (unifix cubes) ezininzi nengqokelela yamakhadi eesimboli zamanani amanani u-1 ukuya kwi-8 - Yenza iqela lenze incochoyi (ithawa) uze uliphawule ngelebheli incochoyi nganye ngenani leetyhubhu ezisetyenzisiweyo umz.  <p>Iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Utitshala ubonisa amakhadi amabini anamachaphaza amanani ahlukeyo nemifanekiso. - Yenza abafundi bathekise amakhathi anemifanekiso namachaphaza ukuchonga e"ngaphezulu kunenye", ngaphantsi kunenye" no"zilingana". 	<p>iibhokisi ezizizikwere ezincamathelanayo (Unifix cubes)</p> <p>Amakhadi eesimboli zamanani u-1 ukuya kwi-8</p> <p>Oonotsheluzi bamachaphaza nemifanekiso</p> 	<p>Usuku olu- 1</p>
<p>1.13</p> <p>Ukudibanisa nokuthabatha</p>	<ul style="list-style-type: none"> • Ukusombulula ngomlomo iingxaki zokudibanisa nokuthabatha ukuya kwi-8 <p>Ngomlomo: Ukubala izinto zemihla ngemihla ukuya kwi-8</p> <p>Ukubala usiya phambili nokubuya umva ukuya kwi-8</p> <p>Kubethelela ukubala ngezi- 2 usebenzisa izicengelezo</p> <p>Ukubethelela ingqiqo ngo "ninzi no-mbalwa"</p> <p>Qhwaba izandla amaxesha amaninzi..... YIMA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhweba izandla ka-8</p> <p>Buza umbuzo ukuba kukuphi okona kuqhweba kungaphezulu / kungaphantsi.</p>	<p>lingoma nezicengelezo zamanani</p>	<p>usuku olu- 1</p>

Iveki yama-33 Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>Isihloko</p> <p>1.13 Ukudibanisa nokuthabatha</p>	<p>Ukufunda usebenzisa intshukumo yomzimba Imizekelo:</p> <ol style="list-style-type: none"> 1. Utitshala ubiza abafundi aba-3 ukuba beze ngaphambili. Abafundi bayababala. Utitshala ubiza abanye abafundi aba-2 abuze ukuba: "Bangaphi abafundi bebonke?" 2 → 5. (utitshala ufhi: u-3 no- 2 benza u- 5) 2. Utitshala upakisha izitulo ezibini. Ongeze ezimbini ngaphezulu. Zingaphi izitulo eziphaya ngoku? Uzi- 2 nozi- 2 →uzi- 4. 3. Utitshala uphakamisa isandla esinye.aze afhi: "bala iminwe yam. Ukuba ndifihla umnwe omnye, mingaphi iminwe oyibonayo? Zi- 5 uthabathe ibe- 1 → 4. 4. Yenza abafundi babale iminwe kwesinye sezandla zabo. Fihla umnwe wakho omnye; mingaphi iminwe oyibonayo? Zi-5 uthabathe ibe-1 →zi- 4. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Yenza abafundi bapakishe izixhobo zokubala ezi-6 uze wenze oku kulandelayo:</p> <ul style="list-style-type: none"> - Utitshala unika umfundi ngamnye izixhobo zokubala ezi-6. Utitshala unika imiyalelo ze abantwana baphendule umz.pakisha izixhobo zokubala ezi-2, yongeza esinye, yongeza ezinye ezi-3.Zingaphi zizonke. U- 2no-1 no-3→isi-6. - Bala izixhobo zokubala ezi-4. Bala ezi-2 ukusuka kuzi-4.Zingaphi onazo ngoku? U- 4 no- 2 →isi- 6. - Bala onke amaso onawo. Ukuba wogquma amaso amabini ngesandla sakho, mangaphi amaso owabonayo? Isi-6 uthabathe zibe-2 →zi- 4. <p>Ukusebenzisa iimilo okanye imifanekiso ephathekayo enokwakheka kuka 2-D Yenza iphazili yamanani uze uvumele abafundi baphicothe ngephazili</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px;">6</div> <div style="border: 1px solid black; padding: 5px;">3</div> <div style="border: 1px solid black; padding: 5px;">9</div> <div style="border: 1px solid black; padding: 5px;">7</div> <div style="border: 1px solid black; padding: 5px;">2</div> <div style="border: 1px solid black; padding: 5px;">9</div> </div>	<p>Izixhobo ezicetyiswayo</p>	<p>Ubude bexesha obuqikelelwayo</p>

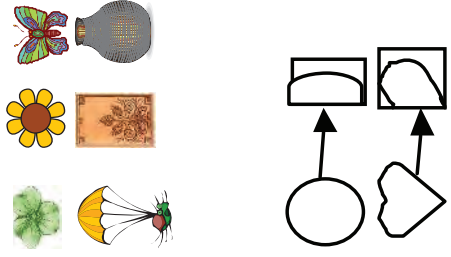
Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
3.3 Izinto ezinokwakheka kuka 2-D	<p>Ukunakana, ukuchonga nokuchaza izinto ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> • Ukuzakhela ingqinco yento engqondweni • Ukufunda usebenzisa intshukumo yomzimba <p>Utitshala uchaza into abuze abafundi ukuba iyintoni umz.</p> <ul style="list-style-type: none"> - 'ndicinga ngento ebomvu, enamavili amane, iingcango ezine neefestile ezivulekayo yenze isandi "vuum". lo msebenzi ungenziwa ngamaqela ujjikwe ubelukhuphiswano – elinye iqela kufuneka lichaze, elinye iqela lijikelele ukuba iyintoni na le kuthethwa ngayo - Chaza umntu uze ucele abafundi ukuba bamchonge umntu lowo . <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Bonisa umfundi umfanekiso umenze awujonge. Wuthathe ucele umfundi ukuba achaze iinkcukacha ngokokuzikhumbula kwakhe. - Thatha umfanekiso ube mnye usike iinxenye zawo. Beka umfanekiso osikiweyo neenxenye zawo ebhokisini uze ucele abafundi ukuba bakhangele iinxenye ezilahlakileyo zomfanekiso ngamnye abawukhethayo. - Zoba umfanekiso ongaphelilelanga kwiitshala ucele abafundi bagqibezele umfanekiso 	<p>Nokuba ngowuphi umfanekiso</p> <p>umfanekiso oneenxenye ezisikiweyo</p> <p>umzobo ongagqitywanga</p> 	Usuku olu-1

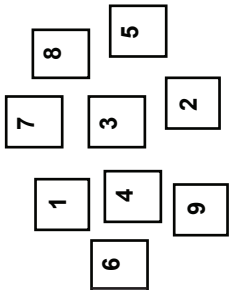
Ivesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)	Ubude bexesha obuqikelelwayo										
<p>Isihloko</p> <p>1.6 Ubuchule bokusombulula iingxaki</p> <p>Amanqaku angcaciso</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D Utitshala uyila umgca manani okanye ileli phantsi okanye emhlabeni:</p> <ul style="list-style-type: none"> - Utitshala unika imiyalelo enjenga le: - Yima kwiqanda okanye qala kwiqanda. - Bala njengoko ushukuma. - Shenxa uye kwinani uzi-5. Buya umva uye kwinani u-2. Shenxela ngaphambili uye kwinani si-8. - Shenxela kwinani usi-8. Shenxa inani libe li-1 ngaphambili. Shenxa amanani ama-2 ukuya emva . - Liliphi inani eliza emva kwe-3 ? - Liliphi inani eliza ngaphambi kwe-7? - Ukukhulisa ulwazi logcino manani ngokwenza abafundi bapakishe izixhobo zokubala okanye naviphi na into ngeendlela ezahlukeneyo umz.  <p>Xa kubalwa, inani lezinto malingachatshazelwa bubungakanani, okanye ubume bendawo, okanye nokuba zezohlobo olunye. Umzekelo:</p> <ul style="list-style-type: none"> - Cwangcisa amaqhosha ali-9, iipensile ezili- 9, oohupu abali- 9, abafundi abali-9, njl. - Bala izinto ngokulandelelana okwahlukileyo umz. zibale ziqaqelene, zisondelelene, zisemgceeni okanye zipakishiwe <p>ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso Ukusebenzisa inani uli-9 kwimeko eqhelekileyo Yenza abafundi:</p> <ul style="list-style-type: none"> - Batsatise unotsheluzo wemifanekiso nenani lamachaphaza afanayo. Pakisha inani lezixhobo zokubala ezifanayo 	<p>Izixhobo ezicetyiswayo</p> <p>Ileli yamanani</p> <table border="1"> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> </table>	0	1	2	3	4	5	6	7	8	9
0	1	2	3	4	5	6	7	8	9		

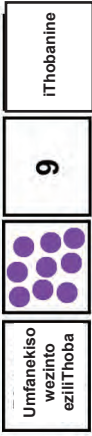
Ivesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
Iveki yama-34	Isihloko	<p>1.3</p> <p>Iisimboli zamanani kunye namagama amanani</p> <ul style="list-style-type: none"> • Ukunakana iisimboli zamanani namagama amanani <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Beka izinto ezi-5 emgceni. - Yenxa abafundi bazijongisise - Abafundi mabajonge kude aze utitshala asuse enye into. - Ubafundi kufuneka batsho ukuba yeyiphi into esusiweyo. - yibuyisele uphinde amaxesha amaninzi uqhubeke ekuseni izinto ezimbini nezingaphezulu. <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - bakhethe isimboli yenani uli-9 negama lenani phakathi kwabanye oonotsheluzi. - Beka unotsheluzi wesimboli yenani phantsi ngokulandelelana kwamanani. - Beka oonotsheluzi beesimboli zamanani ngokulandelelana okusabalakileyo <p>Yahlula abafundi ngokwamaqela amancinane. Utitshala unika iqela ngalinye ingqokelela yamakhadi eesimboli zamanani.</p> <p>Nika abafundi imiyalelo umz.</p> <ul style="list-style-type: none"> - Phathani inani uzi-4, beka ingqiniba yakho kwinani usi-8, hlala kwinani uzi-3, baleka ujikeleze inani uzi-5 amaxesha amahlanu njl. - Badlala imidlalo beqhakamshela izixhobo zokubala amanani namagama amanani, isimboli yenani, amakhadi amachaphaza kunye nemifanekiso. - Qinisekisa ukuba isimboli yenani negama lenani lisoloko liqhakamshelene nenani lezinto ezifanayo. 	<p>Izinto ezi-5 (ukukhumbula ngokubona)</p> <p>Izixhobo zokubala</p>  <p>lingqokelela zamakhadi ezimbalwa eziquka inani u-1 ukuya kwi-9</p>  <p>Oonotsheluzi abanesimboli yenani, igama lesimboli, amachaphaza nemifanekiso umz.</p>  <p>Izinto zokubala</p>

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
3.1 Indawo- bume, ukufumana indawo nombonakalo	<p>Ukulandela izalathiso ,ukufumana indawo nombonakalo</p> <ul style="list-style-type: none"> • Ukukhulisa ingqiqo yezalathiso <p>Ukuzoba unxantathu omkhulu, okanye isikwere phantsi .</p> <ul style="list-style-type: none"> - Abafundi bahamba ecaleni kwemilo bebonisa ngokukhwaza ukuba bajika ekhohlo okanye ekunene ngezandla zabo - Ukufundisa usebenzisa intshukumo yomzimba <p>Zoba unxantathu omkhulu, okanye isikwere ephepheni uwubeke phantsi umzobo lowo.</p> <p>Yenza umfundi omnye:</p> <ul style="list-style-type: none"> - Atyhale imoto yokudlala ecaleni kwemigca. - Intsalela yabafundi yolula izandla zayo zasekhohlo okanye ekunene kwicala elingqinelanayo bathi ekhohlo okanye ekunene. <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Bachaze izinto kwimbombakalo ezahlukeneyo umz. Unodoli (umphambili/umva), indlu (umphambili/umva), umphambili/ umva wesikolo, imoto (umphambili/umva) kuxhomekeke apho ume khona. - Abafundi bachaza abakubonayo umz. Ukuba kukhona umthi ngaphambi kwendlu bachaza indawo ome kuyo umthi. <p>Ukusebenzisa iimilo ezinokwakhaka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Vumela abafundi ukuba bakwenze ngokwabo ukuya phambili/ emva ngokwalatha icala emfanekisweni. 	<p>imilo ezinkulu ezizotywe ephepheni</p> <p>Imoto yokudlala</p> <p>Unodoli Indlu Imoto</p> <p>Imifanekiso ebonisa icala ngokucacileyo umz. Icala aya kulo imoto, icala aya kulo umntu</p>	Usuku olu- 1


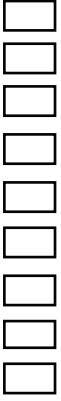

Iveki yama-34 Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
Isihloko 3.3 Iimilo ezinokwakheka kuka2-D	<p>Ukunakana, ukuchonga nokuxela iimilo ezinokwakheka kuka 2-D eklasini, kwimifanekiso nokuzihlela</p> <ul style="list-style-type: none"> • Bethelela ulwazi ngesangqa, unxantathu, isikwere noxande <p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Yenza abafundi babe ngababini.</p> <ul style="list-style-type: none"> - Makazobe iimilo kumqolo womhlobo wakhe ngeminwe yakhe. Omnye umfundi makachaze iimilo leyo <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Nika iimilo zejijometri zobungakanani nobungqingqwa obahlukeneyo.</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Bahele iimilo zejijometri ngokwe: zangqa, oonxantathu, izikwere neengxande . - Bahele iimilo zejijometri ngokobungakanani. - Bahele iimilo zejijometri ngokombala <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - basike ezi milo zibalwe ngasentla ephepheni. Dibanisa iimilo ezinkulu nezincinane kunye noonxantathu bee-engile ezahlukeneyo. - Bahele iimilo ezahlukeneyo bebonke. - Cwangcisa umfanekiso oneemilo ezisikiweyo uwusebenzise ngexesha lomsebenzi wobuGcisa. 	<p>Iintlobo ngeentlobo zeemilo</p> <p>Iphapha elinezangqa, oonxantathu , izikwere kunye neengxande umz.</p>  <p>Dibanisa iimilo ezinkulu nezincinane kunye noonxantathu bee-engile ezohlukeneyo umz..</p> 	Usuku olu- 1

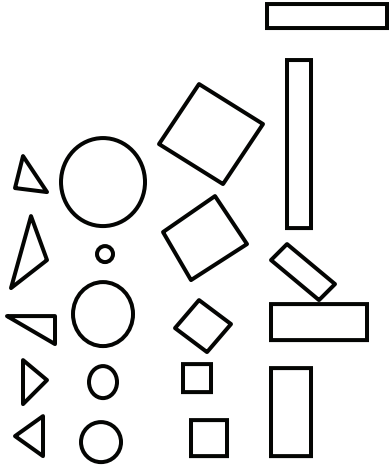
Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
3.4 Ulingano-macala	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Ukukhulisa ulwazi lokuba lukhona ulingano-macala kwizinto Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D <ul style="list-style-type: none"> - Khangela izinto eziyinyani ezizakubonisa ulingano-macala. (icala elinye lifana nelinye icala)umz. ibhabhathane, igqabi lentyantambo. - Utitshala nabafundi baqokelela imifanekiso eyiliweyo ngokolingano-macala umz. Imifanekiso epeyintwe ezindlwini, imifanekiso ekwiithayile, imifanekiso ekwiivazi nakwizambuleni zokuhla (parachutes). <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Abafundi basika iimilo zentliziyo okanye ivazi yentyantambo kwiphepha eliqotywe kubini baze balihombise ngexesha lobuGcisa obuBonwayo 	 <p>Iphetshana eliqotywe kubini</p>	Usuku olu- 1

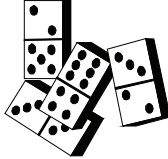
Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku (notes) angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>1.1</p> <p>Bala izinto</p>	<p>• Ukubethelela ulwazi olufumaneka kwiveki yama-34 equka inani i-9</p> <p>Ngomlomo: Ukubala izinto zemihla ngemihla ukuya kwisi-9</p> <p>Bala usiya phambili nokubuya umva ukuya kwisi-9</p> <p>Bala ngokucengezeza u-1 ukuya kwi-10</p> <p>Bethelela ukubala ngezi- 2 usebenzisa izicengezezo zamanani</p> <p>Ukubethelela ingqiqo ka “ninzi no-mbalwa”</p> <p>Qhwaba izandla amaxesha amaninzi..... YEKA.</p> <p>Qhwaba izandla amaxesha ambalwa. Utitshala uqhwaba izandla kali-9</p> <p>Buza umbuzo ukuba kukuphi okona kuqhwaba kungaphezulu / kungaphantsi.</p>	<p>Izicengezezo neengoma zamanani</p>	<p>Usuku olu- 1</p>
<p>1.4</p> <p>Chaza,uthelekise ulandelelanise amanani</p>	<p>Ukufunda usebenzisa intshukumo yomzimba</p> <p>Masidlale umdlalo:</p> <p>Utitshala ubeka phantsi iimilo zeekhadibhodi ezinkulu zamanani okanye amakhadi aquka amanani u-1 ukuya kwi-9 ngokulandelelana.</p> <p>Utitshala unika abafundi imiyalelo enjenge le:</p> <ul style="list-style-type: none"> - Hlala kwinani uzi-6 - Beka uzwane lwakho kuzi-3 - Jikeleza inani uzi-2 kathathu. - Tsiba ngaphezu kwenani u-1. - Utitshala angathi ekugqibeleni asasaze amakhadi eesimboli zamanani. <p>• Sebenzisa amanani kwimeko eqhelekileyo</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Babale izinto eklasini - Babale ngezinto zokubala - Utitshala ubeka imfumba yezinto phezu kwetafle.Yenza abafundi baqikelele ukuba zingaphi izinto ezikwimfumba. Bayazibala emva koko. 	<p>Inggokelela yamakhadibhodi amakhulu amakhadi eesimboli zamanani.</p> <p>ungaziipeyinta kwizijungqe ezingqingqwa zeplastitiki okanye ibhodi eqinileyo</p> 	<p>usuku olu- 1</p>

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
	<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso Yenza abafundi:</p> <ul style="list-style-type: none"> - Badlale imidlalo ngokuqhakamshela izixhobo zokubala amanani namagama amanani, isimboli zamanani, amakhadi amachaphaza nemifanekiso. - Baqinisekisa ukuba isimboli yenani negama lenani zisoloko ziqhakamshelene nenani lezinto ezifanayo - Bakhuphela inani uli-9 ngeekhrayoni 	<p>Unotsheluzi onesimboli yenani negama lenani, amakhadi amachaphaza nemifanekiso umz..</p>  <p>Izixhobo zokubala, iikhrayoni</p>	
1.7 Ukudibanisa nokuthabatha	<ul style="list-style-type: none"> • Sombulula izibalo zamanani zamazwi ngomlomo kwimeko equka amanani u-1 ukuya kwi-9 <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Balisa ibali ngomthi onentaka enye. Enye iyangenelela. Zingaphi iintaka ngoku? Abafundi balinganisa ibali bezogqume ubuso. U-1 no-1 wenza isi-2. - Phinda ibali kuze kushiyeke iintaka ezisi-9 <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Umhlobo omnye unezixhobo zokubala ezisi-8 umz. izilwanyana zeplastiki omnye une-1 ngaphezulu. Zingaphi izilwanyana zeplastiki abanazo zizonke? Isi-8 ne-1 → 9 <p>Ukusebenzisa imilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Nika umfundi ngamnye iphepha lokusebenzela elinomfanekiso womthi. Abafundi babeka isixhobo sokubala esinye emthini. Baqhubeka besongeza isixhobo sokubala esinye ngexesha 	<p>Umfanekiso womthi omkhulu</p> <p>Izixhobo zokubala ezili-9</p> <p>Iphepha lokusebenzela kunye nezixhobo zokubala</p>	Usuku olu-1

<p>Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiwayo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)</p>			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>3.1 Chaza izinto ezimbini enye ngokunxulumene nanye</p>	<p>Chaza indawo yezinto ezimbini ,enye ngokunxulumene nanye Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Umfundi ucela umhlobo ukuba eme phakathi kwezinto ezimbini/ abafundi - Umfundi ucela umhlobo ukuba eme ecaleni kwentombazana enxibe ilokhwe ebhlowu. - Umfundi ucela umhlobo ukuba eme ecaleni kwenkwenkwe enembadada ezibhrawuni. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> • Xhoma intambo phakathi kwezinto ezimbini. • Abafundi baxhoma iimpahla zokunxiba ngokomyalelo umz. - “Xhoma ihempe kwicala elisekhohlo kwintambo yokwaneka kwimpahla” - “Xhoma ilokhwe ngasekunene kwehempe “ - Xhoma itshefu ecaleni kwenjl.” - Xhoma ibhulukhwe phakathi kwe njl.” <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> • Zoba umfanekiso wendlu ngokwemyalelo umz. - Zoba uphahla kumantla ephepha - Zoba iindonga zendlu kumbindi wephepha. - Zobainja kwisandla sasekhohlo sendlu <p>Iphepha malingabi likhulu kakhulu ukuqinisekisa ukuba iintlobo zeemilo zoyama kwenye ukwakha indlu</p>	 <p>Iphepha likhrayoni</p>	<p>Usuku olu- 1</p>
			

Iveki yama-35 Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
<p>Isihloko</p> <p>3.3 Izinto ezinokwakheka kuka 3-D</p>	<p>Amanqaku angcaciso</p> <p>Ukunakana, ukuchonga nokubiza iimilo ezinokwakheka kuka 2-D eklasini nasemifanekisweni:</p> <ul style="list-style-type: none"> - Ukukwazi ukuqaphela iimilo • Ukubethelela ulwazi olufunyenweyo ngoxande <p>Ulwazi-ngemilo bubulumko bokwahlula phakathi kweemilo kokusingqongileyo, ngaphandle kobungakanani okanye ubungakanani be-engile</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <p>Yahlula abafundi ngamaqela .</p> <ul style="list-style-type: none"> - Nika iqela ngalinye iibhloko ezingalinganiyo zokwakha ezilu-9 ezimile njengoxande. <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Bahlele iibhloko zokwakha ezimile njengoxande ngokwamaqela obungakanani. - Babale inani leebhloko zokwakha <p>Utitshala unika le miyalelo ilandelayo:</p> <ul style="list-style-type: none"> - Beka ibhloko yokwakha emile okoxande kumgca ongqalileyo. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <ul style="list-style-type: none"> - Beka ibhloko yokwakha emile okoxande ngokume nkqo. - Beka ibhloko yokwakha emile okoxande kumgca ogoso-goso. - Utitshala unika umfundi ngamnye umsonto wewulu.abafundi bakha uxande ngewulu. <p>Utitshala uyabaxelela ukuba amacala esikwere somfundi ngamnye awafani kodwa imilo ise luxande</p>	<p>Usuku olu- 1</p> <p>Ukheta eminye imisebenzi</p> <p>Iqela ngalinye lifumana iibhloko ezingalinganiyo zokwakha ezilu-9 ezimile njengoxande</p> <p>Umtya wewulu</p>

Ixesha elicetyiswayo lokufunda nokufundisa: Umsebenzi omnye weklasi ocwangcisiweyo okhokelwa ngutitshala (isangqa) wemizuzu engama ± 30 ngosuku (Imisebenzi yeMathematika ngeveki mayibe ± 5)			
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ubude bexesha obuqikelelwayo
Iveki yama-35	<p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Utitshala uzoba oonotsheluzi abahlukileyo abangama-20, umnye uneendidi ezahlukileyo zoonxantathu, izangqa, izikwere kunye neengxande umz..  <p>Utitshala wahlula abafundi ngokwamaqela . Yenza abafundi:</p> <ul style="list-style-type: none"> - Khethe unotsheluzi woxande kwezinye iimilo <p>Yenza abafundi:</p> <ul style="list-style-type: none"> - Khethe yonke imifanekiso eneentyantyambo phakathi kwemifanekiso yemithi namagqabi. 	Amakhadi aneentlobo zoonotsheluzi aBangama-20, ikhadi lili nye lineentlobo ezintlanu zoonxantathu, zesangqa, isikwere kunye noxande.	

Ixesha lokufundisa elicetyiswayo: Umsebenzi katitshala ocwangcisiweyo (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)		
Iveki yama- 36	Amanqaku angcaciso	Ixesha elimisiweyo
<p>Isihloko</p> <p>1.1</p> <p>Bala izinto</p>	<p>Amanqaku angcaciso</p> <p>Bethelela ulwazi olufunyenweyo olubandakanya amanani ukusuka ku- 1 ukuya kwi-9</p> <p>Ngomlomo: Ukubala izinto ezisetyenziswa yonke imihla ukuya kwi-9</p> <p>Bala usiya phambili nokubuya umva ukuya kwi-9.</p> <p>Bethelela ukubala ngezi- 2 besebenzisa izicengecelezo zamanani</p> <p>Bethelela ingqiqo ka “zininzi” no “zimbawala”.</p> <p>Qhwaba izandla kaninzi.....YIMA</p> <p>Qhwaba izandla kambalwa. Utitshala uqhweba izandla kasi-9.</p> <p>Sebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Beka izinto ngokwamaqela aquka amanani -1 ukuya ku-9, abale izinto ngokuvakalayo. - Dlala iidomino <p>Sebenzisa iimilo eziphathekayo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Nika umfundi ngamnye umfanekiso, ichaphaza, isimboli yamanani okanye amakhadi anamagama amanani.</p> <p>Abafundi balandela imiyalelo katitshala</p> <ul style="list-style-type: none"> - Abafundi bahlala kwisangqa. - Utitshala ubiza inani, umz. -9. Abafundi abanomfanekiso, ichaphaza, isimboli zamanani namakhadi anamagama amanani u-9, hamba-hamba apho kwisangqa, usithi “Ndinethoba” - Yenjenjalo nakwamanye amanani. - Xa bonke befumene ithuba lokuba linani, biza amanani ngokulandelelana kwawo. - Abafundi bayema, baphakamise amakhadi abo xa inani elo lekhadi libiziwe ngutitshala - Qaphela ukuba bayakwazi ukuzimisa ngokulandelelana ukusuka ku-1 ukuya kwi -9. - Qaphela ukuba bayakwazi ukumisa amakhadi amele la manani 1, 2, no 3 ukuya kwi-9 ndawonye 	<p>Izixhobo ezicetyiswayo</p> <p>Amaculo nezicengecelezo zamanani</p>  <p>Izixhobo zokufundisa eklasini.</p> <p>Amanani edomino</p> <p>Amakhadi aziintlobo-ntlobo abandakanya amanani ukusuka ku-1 ukuya ku-9, umfundi ngamnye eklasini makafumane oonotsheluzi</p>



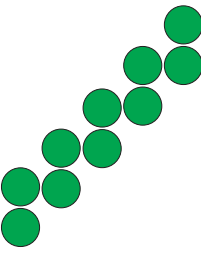
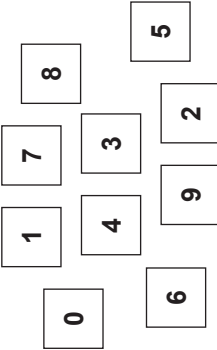
Ixesha lokufundisa elicetyiswayo: Umsebenzi katitshala ocwangcisiweyo (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)			
Iveki yama- 36	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ixesha elimisiweyo
Isihloko 1.13 Ukudubanisa nokuthabatha	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Ukusombulula izibalo zomlomo zokudibanisa nokuthabatha ezibandakanya amanani ukusuka ku-1 ukuya kwi-9 <p>Ngomlomo: Ukubala izixhobo zemihla-ngemihla ukuya kwi-9. Bala usiya phambili nasemva ukuya kwi-9. Bethelela ukubala ngezibini usebenzisa izicengelezo zamanani</p> <p>Bethelela ulandelelwano lokubala: Utitshala ubeka izinto ezi- 6 emgceni. Ukhomba into nganye xa ezibala, umz. <i>eyokuqala, eyesibini, eyesithathu, eyesine, eyesihlanu, eyesithandathu</i> Bethelela iingqiqo ezinje ngezi “zininzi” no “zimbawo” Qhwaba izandla kaninzi..... YIMA Qhwaba izandla kambalwa. Utitshala uqhweba ukuya kumaxesha ali-9. Buza umbuzo ngokona kuqhweba kungaphezulu/kungaphantsi kunezinye.</p>	Amaculo nezicengelezo zamanani	usuku olu-1
	<p>Intshukumo yamalungu omzimba</p> <ul style="list-style-type: none"> - Utitshala ubiza umfundi eze ngaphambi kweklasi. - Ubeka amanani amaso ohlukeneyo ukuya kwi-9, kwisandla somfundi ngamnye, umz. ama-4 kwisandla esinye nama-5 kwesinye - Utitshala ubeka abafundi ngamaqela abo ali-9. - Abafundi bahlala emgangathweni - Utitshala ucela ababini beme ngeenyawo. - Utitshala uyabuza: “Bangaphi abafundi abahleli emgangathweni?” 	Amaso nezinto zokubala	

Ixesha lokufundisa elicetyiswayo: Umsebenzi katitshala ocwangcisiweyo (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)			
Iveki yama- 36	Isihloko	Amanqaku angcaciso	Ixesha elimisiweyo
1.13	Ukudubanisa nokuthabatha	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Abafundi bahlala emethini. - Umfundi ngamnye ufumana amaso ali-9 akwikomityi yeplastiki enesosi. - Bayalelwa ukuba bathathe amaso ama-6 ekomityini yeplastiki bawabeke esosini. Bayalelwa ukuba bongeze amathathu apho esosini. Mangaphi amaso asekomityini? 6 no 3→9. - Thatha amaso ama- 4 kwisosi uwabeke ekomityini yeplastiki. Thatha amanye ama-5 uwardibanise kumaso asekomityini yeplastiki. Mangaphi amaso asesosini? 9 thabatha 4 uphinde uthabathe 5→0. - Thabatha amaso ama- 4 ekomityini yeplastiki uwabeke esosini. Mangaphi ashiyeke ekomityini yeplastiki? 9 thabatha 4 →5. - Thabatha amaso ama-5 ekomityini uwabeke esosini. Mangaphi ashiyeke ekomityini? 5 thabatha 5 →0. <p>Ukusebenzisa iimilo eziphathekayo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Yohlula abafundi ngamaqela. Nika iqela ngalinye iseti yemifanekiso yoonotsheluzi</p> <ul style="list-style-type: none"> - Bala imifanekiso emi- 6 kunotsheluzi. Xa usongeza unotsheluzi nemifanekiso emi- 2, mingaphi oya kuba nayo ngokur? 6 no 2 → 8. - Bala izinto ezisi- 8 kwikhadi lomfanekiso. Xa usogquma imifanekiso emi- 3, mingaphi oyibonayo? 8 thabatha 3 → 5. - Beka izixhobo zokubala ezilele nani. 	<p>Xa ungenazo iikomityi neesoszi zama ukuzenza.</p>
2.1	lipateni zejyometri	<ul style="list-style-type: none"> • Ukukopa ipateni yengxolo <p>Intshukumo yamalungu omzimba</p> <ul style="list-style-type: none"> - Utitshala wohlula abafundi ngamaqela amathathu. Sebeza ubonakalise eqeleni ngalinye ingxolo yohlobo lwemoto abazakuyilinganisa. - Iqela ngalinye lenza ingxolo yemoto abayinikiweyo xa liceliwe ngutitshala, umz. Woosh, brrrr, zonk / Woosh, brrrr, zonk. 	<p>Iiseti ezimbalwa zemifanekiso yoonotsheluzi</p>
			<p>Usuku olu-1</p>

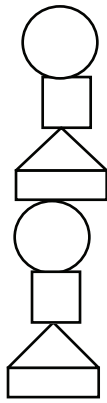
Ivesha lokufundisa elicetyiswayo: Umsebenzi katitshala ocwangcisiweyo (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	Ixesha elimisiweyo									
Izixhobo ezicetyiswayo	Ixesha elimisiweyo									
<p>5.1</p> <p>Qokelela uze uhlele izinto</p> <p>Masidlale umdlalo</p> <p>Hlela nokubeka ngamaqela umbala okhethiweyo wodongwe lwale veki ilandelayo, umz.</p> <ul style="list-style-type: none"> - Izibalo ema zisombululwe ukubonisa umbala wodongwe weveki. <p>Qokelela ulwazi uze ulihlele</p> <ul style="list-style-type: none"> - Sebenzisa izinto eziphathekayo ukwenza igrafu esinjengeebhloko, iityhubhu, iLego ezimele imibala yomdongwe owucwangcisele ukuwenza, umz. mthubi, luhlaza, bhlowu, bomvu nji. - Umfundi ngamnye ukhetha ibhloko enye emele umbala awukhethileyo womdongwe aza kudlala ngawo evekini. <p>5.2</p> <p>Bonisa ingqokelela yezinto ezihleliweyo</p> <p>Zoba igrafu</p> <ul style="list-style-type: none"> - libhloko ziyabekwa ngokwemibala ekwiphowusta. <p>5.3</p> <p>Xoxa uze unikezele ingxelo ngengqokelela yezinto ezihleliweyo</p> <p>Funda nokutolika igrafu</p> <ul style="list-style-type: none"> - Ngendlela abafundi abazikhethile ngayo imibala yomdongwe weveki iyakuba ngumthubi. <div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 33%;">Bhlowu</th> <th style="width: 33%;">Mthubi</th> <th style="width: 33%;">Luhlaza</th> </tr> </thead> <tbody> <tr> <td>□ □</td> <td>□ □ □ □</td> <td>□ □</td> </tr> <tr> <td>2</td> <td>4</td> <td>2</td> </tr> </tbody> </table> </div>	Bhlowu	Mthubi	Luhlaza	□ □	□ □ □ □	□ □	2	4	2	<p>usuku olu-1</p> <p>Luhlaza, mthubi, luhlaza, bomvu, iLego (kusetyenziswa uhlobo olunye kuphela)</p>
Bhlowu	Mthubi	Luhlaza								
□ □	□ □ □ □	□ □								
2	4	2								

Iveki yama- 37	Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo Ixesha elimisiweyo
<p>1.1</p> <p>Bala izinto</p>	<p>Fundisa intsingiselo yenani i-0 (iqanda)</p> <p>Ngomlomo: Ukubala izinto zemihla-ngemihla uqala ku-0 ukuya kwi-10. Bala usiya phambili nokubuya umva, uqala ku-0 ukuya kwi-10.</p> <p>Bethelela ukubala ngezibini esebenzisa izicengelezo zamanani</p> <p>Bethelela ubala ngokulandelelanisa amanani:</p> <p>Utitshala ubeka izinto ezi- 6 emgceni. Ukhomba into nganye xa ezibala, umz. <i>eyokuqala, eyesibini, eyesithathu, eyesine, eyesihlanu, eyesithandathu</i></p> <p>Bethelela iingqiqo ezinje ngezi “zininzi” no “zimbawo”</p> <p>Qhwaba izandla kaninzi.....YIMA</p> <p>Qhwaba izandla kambalwa. Utitshala uqhweba ukuya kumaxesha ali-10.</p> <p>Buza umbuzo ngokona kuqhweba kungaphezulu/kungaphantsi kunezinye</p> <p>Utitshala uchaza ukuba i-0 yinto engekho, ukubala izinto ezikhoyo kuqala ku-1.</p> <p>Intshukumo yamalungu omzimba</p> <ul style="list-style-type: none"> - Utitshala ubonisa abafundi igama lenani i-0. - Abafundi mabachonge amalungu omzimba enza u-0, umz. <ul style="list-style-type: none"> o Umlomo womfundi o Iminwe yomfundi 	<p>usuku olu-1</p> <p>Amaculo nezicengelezo zamanani</p>
<p>1.1</p> <p>Bala izinto</p>	<p>Sebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <ul style="list-style-type: none"> - Utitshala ubeka izixhobo zokubala esandleni sakhe, esinye singabi nanto tu. - Uvula isandla esinye abonise abafundi izixhobo zokubala, avule esinye abonise abafundi ukuba asinanto. - Lo msebenzi ungenziwa kusetyenziswa abafundi. <p>Sebenzisa izinto ezibonakalayo ezinokwakheka kuka 2-D nemifanekiso</p> <ul style="list-style-type: none"> - Utitshala ubonisa abafundi oonotsheluzi abangenamifanekiso, nesimboli yenani u-0. 	<p>Izinto zokubala</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 5px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;">0</div> </div>

Iveki yama- 37	Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo
<p>1.1</p> <p>Bala izinto</p>	<p>• Ukwazisa intsingiselo yenani i-10</p> <p>Ngomlomo: Ukubala izinto zemihla-ngemihla ukuya kwi-10.</p> <p>Ukubala usiya phambili nokubuya umva, ukuya kwi-10</p> <p>Ukubala ngokucengceleza 0-10</p> <p>Ukubethelela ukubala ngezi- 2 esebenzisa izicengcelezo zamanani</p> <p>Ukubethelela ulandelelwano lokubala:</p> <p>Ututshala ubeka izinto ezi- 6 emgceni. Ukhomba into nganye xa ezibala, umz. <i>eyokuqala, eyesibini, eyesithathu, eyesine, eyesihlanu, eyesithandathu</i></p> <p>Ukubethelela iingqiqo ezinje ngezi “zininzi” no “zibalwa”</p> <p>Ukuqhweba izandla kaninzi.....YIMA</p> <p>Ukuqhweba izandla kambalwa. Utitshala uqhweba ukuya kumaxesha ali-10.</p> <p>Ukubuza umbuzo ngokona kuqhweba kungaphezulu/kungaphantsi kunezinye</p> <p>Ukufunda usebenzisa intshukumo yamalungu omzimba</p> <p>Bavumele abafundi ba:</p> <ul style="list-style-type: none"> - bengababini benze inani i-10 ngemizimba yabo (abafundi aba-4). - bale ukuya kwi-10 ushukuma ngesingqi segubu. - bambe iminwe eli-10. - zobe inani i-10 esantini, emgangathweni bahambe nakuyo. - tsibe amaxesha ali-10 - beke amanani abawasike kumakhadibhodi kwi”ngxowa empamphathwayo” - thathe iseti yoonotsheluzi abanemifanekiso emele inani, umz. iibhola ezimbini ekhadini elibhalwe inani u-2. Umfundi umpamphathwayo amanani ebhegini awatshatise namakhadi 	<p>Ixesha elimisiwayo</p> <p>Usuku olu- 1</p> <p>Khetha imisebenzi embalwa</p> <p>Amaculo nezicengcelezo zamanani</p> <p>Sika amanani ekhadibhodi</p> <p>Isimboli enkulu yoonotsheluzi bamanani</p>













Iveki yama- 37	Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo
	<p>Ukusebenzisa izinto ezibonakalayo ezinokwakheka kuka 3-D:</p> <p>Bavumele abafundi ba:</p> <ul style="list-style-type: none"> - beke iinombolo zeefowuni zabo besebenzisa iisimboli ezinkulu zamakhadi amanani. Baxebele ngo-0 omele i-10. - Qaphele amanani ngokuwabeka ngezinto ezintlanu ngeendlela ezahlukeneyo, umz. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <p>Xa bebala inani lezinto alitshintshwa bubungakanani, ubume, ukuzalana, umz.:</p> <ul style="list-style-type: none"> - Beka amaqhosha ali-10, iipensile ezili-10, ihulahupu ezili-10, abafundi abali-10 nji. - Zibale ngolunye uhlobo lolandelelwano, umz.zibale zithe saa, zidibene, zisemgceeni nji. 	<p>Amakhadi aneenombolo zeefoni zabafundi</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> </div>
		Ixesha elimisiwayo

Iveki yama- 37	Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiweyo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo
	<p>Ukusebenzisa iimilo ezinokwamheka kuka 2-D okanye imifanekiso</p> <p>Bayalele abafundi ba:</p> <ul style="list-style-type: none"> - beke izinto ngokwamaqela azo abandakanya amanani ukusuka ku-1 ukuya kwi-10 babale ngokuvakalayo izinto ezo. <p>Utitshala wohlula abafundi ngamaqela ama-5</p> <p>Bayalele abafundi ba:</p> <ul style="list-style-type: none"> - landelelanise, batshatise amakhadi emifanekiso, oonotsheluzo bamachaphaza, iisimboli zamanani kunye namagama amanani ukuya kwi-10, umz. <div style="text-align: center;"> </div>	<p>Izinto eklasini</p> <p>Iseti yamakhadi emifanekiso ukuya kwi-10</p> <div style="display: flex; justify-content: center; align-items: center; gap: 10px;"> <div style="border: 1px solid black; width: 30px; height: 30px;"></div> <div style="border: 1px solid black; width: 30px; height: 30px; text-align: center;">0</div> </div> <p>Izinto zokubala</p>
	<p>njl-njl.</p> <p>Pakisha izixhobo zokubala kwikhadi lamachaphaza ngalinye</p>	

Iveki yama- 37	Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo
<p>2.1 lipateni zejyometri</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Diala umdlalo wepateni- “usikhoji” njl. Nxulumanisa nezeMithambo kwiZakhono zoBomi Funda usebenzisa ints’hukumo yamalungu omzimba <ul style="list-style-type: none"> - Hamba-hamba apho eklasini. Ngesingqi somculo naxa umculo uphela, biza igama lemilo, abafundi mabayenze imilo leyo ngeminwe yabo. Emaqeleni abo Bangazilinganisa iimilo ngemizimba yabo. - Zoba le pateni ilandelayo emgangathweni okanye everanda, abafundi mabahamba-hambe kwiindlela okanye iimilo ezilapho kuloo pateni. <div style="text-align: center;">  </div> <p>Xoxa ngale pateni, umz.</p> <ul style="list-style-type: none"> - Buza imibuzo elandelayo: - “Yeyiphi imilo elandela uxande lokuqala?” - “Yeyiphi imilo ephambi kwesangqa sokuqala?” <p>Abafundi balandela ipateni ngolu hlobo:</p> <ul style="list-style-type: none"> - Utitshala uthi: “Zintle, tsiba phambi kukaMiisa”, “Neli ungatsiba emva kukaSindi” - Tsiba ngeenyawo zombini kuxande. - Tsiba ngonyawo lwasekhohlo kunxantathu. - Tsiba ngonyawo lwasekunene kwisikwere. - Tsiba ngeenyawo zombini kwisangqa, jika-jika umzimba wakho ume kwisangqa. - Gqibezela ipateni. 	<p>Umzekelo wepateni ezotywe emgangathweni okanye everanda.</p> <p style="text-align: right;">Usuku olu-1</p>

Iveki yama- 37	Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo
<p>2.1 lipateni zejijometri</p>	<p>Sebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <ul style="list-style-type: none"> - Umfundi ngamnye ufumana ezi milo zilandelayo:  <p>Utitshala wenza ipateni ngeemilo zakhe. Bavumele abafundi ba:</p> <ul style="list-style-type: none"> - Kope ipateni zikatitshala besebenzisa ezi milo zingentla. - Velisa ezabo ipateni ngeemilo abaziniwayo. 	<p>Umfundi ngamnye ufumana ezi milo zilandelayo:</p> 
<p>3.1 Indawo- bume kunye nembonakalo</p>	<p>Landela izalathiso ukuhamba okanye ukufumana indawo kwisithuba esithile</p> <ul style="list-style-type: none"> • Ukhulisa ingqiqo yezalathiso, ngokulandela imiyalelo kuquka ikhohlo nekunene <p>Funda usebenzisa ints'hukumo yamalungu omzimba</p> <p>Bayalele abafundi balandele imiyalelo katitshala:</p> <ul style="list-style-type: none"> - Jonga phezulu/phantsi/ecaleni. - Goba/ekhohlo/ekunene. - Phakamisa umlenze wasekhohlo/wasekunene. - Gaqa ujikeleze itafile. - Yiya phambili/ecaleni/ngasemva - Faka isandla sakho/ sikhuphe - Yima ekunene ecaleni kwesitulo/yima ekhohlo ecaleni kwesitulo. - Yima phambi/ emva kwesitulo sakho. - Yima phakathi kwesitulo ezibini. - Jonga ekhohlo/ekunene. - Jika unyawo ulise ekhohlo. Jika unyawo ulise ekunene 	<p>Imiyalelo katitshala.</p> <p>Isigama:</p> <p>phezulu/phantsi phakathi/phandle phezu/ezantsi ngaphezulu/emva/ngaphantsi phambi kwe-/emva kwe- kweli cala/kwela cala ekhohlo/ekunene</p>

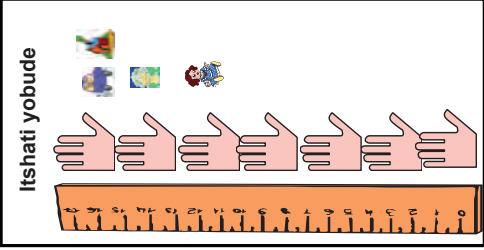
Iveki yama- 37	Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)		
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ixesha elimisiwayo
	<p>Ukusebenzisa izinto ezibonakalayo ezinokwakheka kuka 3-D: Bayalele abafundi benze oku kulandelayo ebhodini, ba:</p> <ul style="list-style-type: none"> - zobe izangqa bejikeleza - zobe imigca engqalileyo esuka ekhohlo ukuya ekunene - zobe imigca eya phezulu neya ezantsi. - utitshala uzoba amachaphaza amabini, abafundi bayidibanise ngomgca. 	<p>ibhodi</p>	

Iveki yama- 37 Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	Ixesha elimisiwayo								
<p>Isihloko</p> <p>5.1 Qokelela uze uhlel eizinto</p> <p>5.2 Bonisa ingqokelela yezinto ezihleliwayo</p> <p>5.3 Xoxa uze unikezelo ingxelo ngengqokelelo yezinto ezihleliwayo</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> Bethelela ukusebenza ngolwazi oluqokelelweyo Sebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D: <ul style="list-style-type: none"> Xoxa nabafundi iindlela abeza ngazo esikolweni. Zoba imifanekiso ebonisa izithuthi ezo zabo ndawonye nabo besiza esikolweni okanye bekhathshwa ngabazali babo, umz. <table border="1"> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>2</td> <td>3</td> <td>1</td> </tr> </tbody> </table> <p>Imifanekiso yezithuthi kwiimagazini, umz. itekisi, ibhasi, imoto kunye nabafundi bekhwele kuzo. Zoba xa ungenazo iimagazini.</p> <p>- Hlatuya iziphumo ngemibuzo</p>					4	2	3	1
									
4	2	3	1						

Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)			
Iveki yama- 38	Amanqaku ngangcaciso	Izixhobo ezicetyiswayo	Ixesha elimisiwayo
Isihloko 1.1 Bala izinto	<p>Bethelela ulwazi olufunyenwe kwiiveki ezingama-37 olubandakanya i-0 ukuya kwi-10</p> <p>Ngomlomo: Ukubala izinto zemihla-ngemihla uqala kwi-0 ukuya kwi-10. Bala usiya phambili nokubuya umva. uqala kwi-0 ukuya kwi-10. Bala ngentloko ngokungenantsingiselo uqala kwi-0 ukuya kwi-10</p> <p>Bethelela ukubala ngezi- 2 esebenzisa izicengelezo zamanani</p> <p>Bethelela ukubala ngokulandelelanisa amanani: Utitshala ubeka izinto ezi- 6 emgceni. Ukhomba into nganye xa ezibala, umz. <i>eyokuqala, eyesibini, eyesithathu, eyesine, eyesihlanu, eyesithandathu</i></p> <p>Bethelela iingqiqo ezinje ngezi “zininzi” no “zimbalwa” Qhwaba izandla kaninzi..... YIMA Qhwaba izandla kambalwa. Utitshala uqhweba ukuya kumaxesha ali-10. Buza umbuzo ngokona kuqhweba kungaphezulu/kungaphantsi kunezinye.</p> <p>Funda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala uzoba izangqa ezili-11 (0 to 10) emgangathweni okanye usebenzise inulahluphu. Bhala amanani ukusuka ku-0 ukuya kwi- 10 ngaphandle kwesangqa ngasinye. Biza inani abafundi bagibisele ingxowa yemboty kweso sangqa sibiziweyo. - Khumbuza abafundi ukuba u-0 yinto engekho. Xa umfundi egibisele ingxowa yemboty kwisangqa esingenanto uzakuphuma kulo mdlalo. - Umfundi ugibisele ingxowa yemboty kwisangqa esihambelana nechaphaza okanye nekhadi lomfanekiso eliboniswe ngutitshala. - Umfundi ugibisele ingxowa yemboty kwisangqa esiboniswe kwisimboli yamanani ngutitshala. - Yenjenjalo usebenzisa amakhadi amagama amanani 	<p>Amaculo nezicengelezo zamanani</p> <p>lingxowa zeemboty ezi-10 Zoba izangqa esantini/emgangathweni okanye sebenzisa iihulahuphusi.</p>	<p>Usuku olu-1</p> <p>okanye</p> <p>khetha imisebenzi embalwa</p>

Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)				
Iveki yama- 38	Isihloko	Amanqaku ngangcaciso	Ixesha elimisiwayo	
	1.3 Iisimboli zamanani kunye namagama amanani	<p>Nakana, uze chonga iisimboli zamanani kunye namagama amanani</p> <p>Sebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <p>Bavumele badlale umdlalo:</p> <ul style="list-style-type: none"> - Bhala igama lenani kwicala elinye lekhadi, isimboli yamanani kwelinye icala - qala ku-0 ukuya kwi-10. (sebenzisa iiseti ezimbalwa). - Mabafunde igama lenani baqikelele isimboli yenani. - Mabajijonge ikhadi elo , balungise iziphoso zabo. 	<p>Iseti yamakhadi amanani eqala ku- 0 ukuya kwi-10</p> <p>Amakhadi abandakanya amanani, ukuqala ku-</p> <p>1 ukuya kwi-10 namagama amanani kwicala elinye nesimboli yenani kwelinye icala. (Yenza iiseti ezimbalwa ukuze abafundi babe nawabo amakhadi).</p>	Ixesha elimisiwayo
	1.4 Ukuchaza, ukuthlekisa nokulandelelanisa amanani	<ul style="list-style-type: none"> • Fundisa ulandelelwano lwamanani, umz. eyokuqala, eyesibini, eyesithathu, eyesine, eyesihlanu, eyesithandathu ... eyokugqibela. <p>Le ngqiqo ikhuliswa emva kwethuba nangokuleyibhelisha iimeko ezizenzekelayo apha eklasini, umz. yimani emgceni siya phandle, “USiya ngowokuqala, uHelen ngowesibini</p> <p>Funda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Mabadlale ugqatso. Ngowuphi ofike kuqala/ owesibini/owokugqibela? <p>Dlala umdlalo – “Yeyiphi eyona”?</p> <ul style="list-style-type: none"> - Cela abafundi abahlanu bahle ezitulweni zabo, benze umgca. - Utitshala uthi: “Ndinga omnye waba bafundi. Umfundi unxibe ijezi ebomvu.” - Qala ngomfundi ongaphambili, bajikeleze bonke ubabamba, ubabuze: “Ingaba ungumfundi wokuqala, wesibini, wesithathu ... njl.?” <p>Abafundi aba-5 mabeme phandle kumanqwanqwa .Utitshala makabeke ikhadi lesimboli yamanani efanelekileyo ezantsi komfundi ngamnye kumanqwanqwa.</p> <p>Bonisa umfundi kwinqwanqwa:</p> <ul style="list-style-type: none"> - sokuqala. - sesibini. - sesithathu njl’. <p>Umfundi okwinqwanqwa lokuqala uveza ikhadi lesimboli yamanani emva kokuba ibiziwe njengempendulo ngumhlobo wakhe.</p> <p>Yenjenjalo ude uye kumfundi wesi- 6.</p>	<p>usuku olu-1</p> <p>Izitulo ezihlanu</p> <p>Iseti yamakhadi eesimboli zamanani aqala ku-1 ukuya kwi-10</p> <p>Zenzele xa kungekho zixhobo zolandelelwano</p>	

Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)			
Iveki yama- 38	Amanqaku ngangcaciso	Izixhobo ezicetyiswayo	Ixesha elimisiwayo
<p>1.7</p> <p>Ukuthabatha noku dibanisa</p>	<p>Sombulula ngomlomo izibalo zamazwi (izibalo ezingamabali) ezibandakanya i-10</p> <p>Ngomlomo: Ukubala izinto zemi-hla-ngemihla uqala kwi -0 ukuya kwi-10. Ukubala usiya phambili nokubuya umva, uqala kwi-0 ukuya kwi-10.</p> <p>Ukubethelela iingqiqo ezinje ngezi “zininzi” no “zimbawo”</p> <p>Ukuqhwaba izandla kaninzi..... YIMA</p> <p>Ukuqhwaba izandla kambalwa. Utitshala uqhwaba ukuya kumaxesha ali-10.</p> <p>Ukubuza umbuzo ngokona kuqhwaba kungaphezulu/kungaphantsi kunezinye</p> <p>Imizekelo:</p> <ol style="list-style-type: none"> 1. Kwaye kukho iintombi ezi- 5 endlwini. Kwafika za-5 kwakhona iintombi kule ndlu. Zingaphi zizonke ngoku? 5 no 5 → 10. 2. Bala izixhobo zokubala ezi- 7. Bala ezibini ngaphezulu. Bala esinye ngaphezulu. Zingaphi zizonke? 7 no 2 no 1 → 10. 3. Kukho izixhobo zokubala ezili-10 phezu kwetafle. Kushiyeke za-4. Zingaphi ezisusiwayo? 10 thabatha 6 → 4. 4. Uneemabhile ezili- 10. Thabatha ezi- 3. Zingaphi ozishiyileyo? 10 thabatha 3 → 7 5. Wenze ikeyiki ezili-10. Wathengisa ezi-2 ikeyiki. Ushiye zangaphi? 	<p>izixhobo zokubala</p>	<p>usuku olu-1</p>
<p>3.1</p> <p>Indawo- bume, ukufumana indawo nembonakalo</p>	<p>Ukulandela izalathiso uhamba-hamba okanye ukufumana indawo kwisithuba esithile eklasini</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Bacele beme emva eklasini - Bacele beme ecaleni eklasini/ nakwelinye icala ngokunjalo. - Bacele beme ngaphambili eklasini. <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <p>Ingxolo inentsingiselo.</p> <p>Abafundi bamamela i-:</p> <ul style="list-style-type: none"> - intsimbi - impempe - nasiphina isixhobo sokucula. - Bangqabanisa iibhloko ezimbini zomthi. 	<p>intsimbi impempe nasiphina isixhobo sokucula iibhloko zomthi ezi-2</p>	<p>usuku olu-1</p>

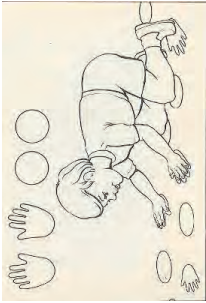

Iveki yama- 38	Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiweyo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	
Isihloko	Amanqaku ngangcaciso	Izixhobo ezicetyiswayo
<p>4.2 Ubude</p> <ul style="list-style-type: none"> • Thelekisa uze uhlele izinto ngokwenza usebenzisa isigama esifanelekileyo ukuhaza ubude • Thatha umlinganiselo wobude wabafundi ngeteyiphu yokuthatha umlinganiselo Funda usebenzisa intshekum yomzimba <ul style="list-style-type: none"> - Zekelisa kwikota yokuqala neyesibini apho bebesenza imilinganiselo yomphakamo wetshati ngezandla. - Yenza umlinganiselo wobude bomfundi. - Beka iteyiphu ngakwimifanekiso yezandla ezibonakalisa umphakamo wetshati. - Mabulinganiswe ubude babafundi kwakhona. - Baxebelele ukuba sisebenzisa isixhobo somlinganiselo omiselekileyo kway umama usebenzisa oku xa esenza ilokhwe. - Ngoku abasezozandla ezilishumi ubude kodwa bazisentimitha ezilishumi ubude - Mabathelekise imiphakamo yabo. Ngowuphi oyena mde/ mfutshane eklasini? <p>Sebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <ul style="list-style-type: none"> - Umfundi ungqengqa emgangathweni, abanye babeke iibhloko zokwakha ezilinganayo emgceni ecaleni komfundi lowo ungqengqileyo. - Bayalele benze into ende/emfutshane kunomhlobo wakho 	<p>Itshati yobude iteyiphu yokuthatha umlinganiselo</p> 	Ixesha elimisiweyo

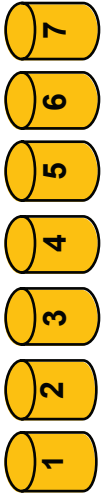
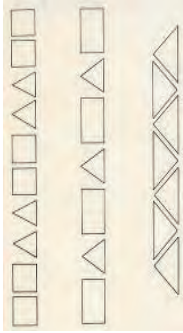
Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiweyo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)			
Iveki yama- 39	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ixesha elimisiweyo
Isihloko			
1.1			
Bala izinto	<p>• Ukubethelela intsingiselo yenani i-10</p> <p>Ngomlomo: Ukubala izinto zemihla-ngemihla uqala kwi-0 ukuya kwi-10.</p> <p>Bala usiya phambili nokubuya umva, uqala kwi-0 ukuya kwi-10.</p> <p>Bala ngentloko ngokungenantsingiselo uqala kwi-0 ukuya kwi-10</p> <p>Bethelela ukubala ulandelelanisa amanani:</p> <p>Utitsihala ubeka izinto ezi- 6 emgceni. Ukhomba into nganye xa ezibala, umz. <i>eyokuqala, eyesibini, eyesithathu, eyesine, eyesihlanu, eyesithandathu</i></p> <p>Bethelela iingqiqo ezinje ngezi “zininzi” ne “zimbilwa”</p> <p>Qhwaba izandla kaninzi..... YIMA</p> <p>Qhwaba izandla kambalwa. Utitsihala uqhweba ukuya kumaxesha ali-10.</p> <p>Buza umbuzo ngokona kuqhweba kungaphezulu/kungaphantsi kunezinye</p>	Amaculo nezicengcelezo zamanani	usuku olu-1
	<p>Funda usebenzisa intshekum yomzimba</p> <p>Bavumele abafundi ba/be:</p> <ul style="list-style-type: none"> - nze isicengcelezo samanani besebenzisa iminwe yabo elishumi. - bale amanani amaxesha utitshala ebetha itafle - qhwabe izandla kali-10. - bale izitepusi ezihamba abafundi xa bephuma eklasini okanye bedlala ihulahu. - ngqishe iinyawo zabo ngesingqi esinye. - Beme beli-10 kwisangqa esinebhaskithi esizikithini umfundi ngamnye enengxowa yembotyi baziphose ebhaskithini zibeli-10. Mababale ngokuvakalayo xa bephosa iibhimbhegi .Qiniseka ukuba bonke abafundi baphose ebhaskithini 		libhimbhegi nebhaskithi

Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)			
Iveki yama- 39	Isihloko	Amanqaku angcaciso	Ixesha elimisiwayo
1.13 Ukudibanisa nokuthabatha	<p>Bethelela ukusombulula izibalo zokudibanisa nezokuthabatha ukuya kwi- 10</p> <p>Ngomlomo: Ukubala izinto zemihla-ngemihla uqala ku-0 ukuya kwi-10.</p> <p>Bala usiya phambili nokubuya umva, uqala ku-0 ukuya kwi-10.</p> <p>Bethelela ukubala ngezibini esebenzisa izicengelezo zamanani</p> <p>Bethelela iingqiqo ezinje ngezi “zininzi” ne “zimbawo”</p> <p>Qhwaba izandla kaninzi..... YIMA</p> <p>Qhwaba izandla kambalwa. Utitshala uqhweba ukuya kumaxesha ali-10.</p> <p>ngokubuza umbuzo ngokona kuqhweba kungaphezulu/kungaphantsi kunezinye</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala ubiza abafundi aba-5 bezengaphambili, ongeze omnye de aye kwi-10. - Babala ngokuvakalayo. <p>5 no 1 → 6. (ithi: ntlanu dibanisa inye, yenza ntandathu)</p> <p>6 no 1 → 7.</p> <p>7 no 1 → 8.</p> <p>8 no 1 → 9.</p> <p>9 no 1 → 10.</p> <ul style="list-style-type: none"> - Utitshala ubayalela ukuba babale bebuya umva <p>10 thabatha 1 → 9</p> <p>9 thabatha 1 → 8</p> <p>10 thabatha 2 → 8</p>	<p>Amanqaku angcaciso</p> <p>Bethelela ukusombulula izibalo zokudibanisa nezokuthabatha ukuya kwi- 10</p> <p>Ngomlomo: Ukubala izinto zemihla-ngemihla uqala ku-0 ukuya kwi-10.</p> <p>Bala usiya phambili nokubuya umva, uqala ku-0 ukuya kwi-10.</p> <p>Bethelela ukubala ngezibini esebenzisa izicengelezo zamanani</p> <p>Bethelela iingqiqo ezinje ngezi “zininzi” ne “zimbawo”</p> <p>Qhwaba izandla kaninzi..... YIMA</p> <p>Qhwaba izandla kambalwa. Utitshala uqhweba ukuya kumaxesha ali-10.</p> <p>ngokubuza umbuzo ngokona kuqhweba kungaphezulu/kungaphantsi kunezinye</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala ubiza abafundi aba-5 bezengaphambili, ongeze omnye de aye kwi-10. - Babala ngokuvakalayo. <p>5 no 1 → 6. (ithi: ntlanu dibanisa inye, yenza ntandathu)</p> <p>6 no 1 → 7.</p> <p>7 no 1 → 8.</p> <p>8 no 1 → 9.</p> <p>9 no 1 → 10.</p> <ul style="list-style-type: none"> - Utitshala ubayalela ukuba babale bebuya umva <p>10 thabatha 1 → 9</p> <p>9 thabatha 1 → 8</p> <p>10 thabatha 2 → 8</p>	<p>Izixhobo ezicetyiswayo</p> <p>Amaculo nezicengelezo zamanani</p>
	<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D:</p> <p>Abafundi bahlala emethini. Umfundi ngamnye unezixhobo zokubala ezili-10 neziciko zeplastiki.</p> <p>Bayalele balandele imiyalelo:</p> <ul style="list-style-type: none"> - Pakisha izixhobo zokubala ezi- 4 esicikweni sakho. Dibanisa ezi- 4 ngaphezulu. Zingaphi zizonke? 6 no 4 → 10 - Pakisha izixhobo zokubala ezili- 10. Thabatha zibe - 5. Kushiyeke zangaphi? nji-nji. 	<p>Izixhobo zokubala ezili-10 kumfundi ngamnye</p> <p>Iziciko zeplastiki, umz. iziciko ze-ayisi krim</p>	<p>Ixesha elimisiwayo</p> <p>Usuku olu-1</p>

Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiweyo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)			
Iveki yama- 39	Isihloko	Amanqaku angcaciso	Ixesha elimisiweyo
1.13	Ukudibanisa nokuthabatha	<p>Ukusebenzisa iimilo eziphathekayo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Bala izinto ezisi-8 ekhadini lomfanekiso. Xa udibanisa amakhadi omfanekiso ama-2 ngaphezulu, zingaphi onazo ngoku? - 8 no 2 →10. Pakisha kwalamanani ezixhobo zokubala. - Bala izinto ezili-10 ekhadini lomfanekiso. Xa uthabatha ezi- 3, zingaphi ezishiyekileyo? 10 thabatha 3 → 7. Pakishakwalamanani ezixhobo zokubala. 	<p>Imifanekiso yonotsheluzaebandakanya amanani ukuqala ku- 1 ukuya kwi- 10</p> <p>Izixhobo zokubala</p>
1.4	Chaza, thelekisa uze ulandelelanise amanani	<ul style="list-style-type: none"> • Ukutholekisa ukuba yeyiphi enengqokelela e-: <ul style="list-style-type: none"> - ngaphezu kwenye - ngaphantsi kwenye(mbalwa) - lingana nanye (fanayo) <p>Ngomlomo: Ukubala izinto zemihla-ngemihla uqala ku-0 ukuya kwi-10.</p> <p>Bala usiya phambili nasemva, uqala ku-0 ukuya kwi-10.</p> <p>Bethelela ukubala ngezi- 2 esebenzisa izicengelezo zamanani</p> <p>Bethelela iingqiqo ezinje ngezi “zininzi” no “zibalwa”</p> <p>Qhwaba izandla kaninzi..... YIMA</p> <p>Qhwaba izandla kambalwa. Utitshala uqhweba ukuya kumaxesha ali-10.</p> <p>Buza umbuzo ngokona kuqhweba kungaphezulu/kungaphantsi kunezinye</p> <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Beka abafundi aba-6 ndawonye kuhlahupu nabanye aba-4 komnye uhlahupu. - ” ingaba kukho abafundi abongezelekileyo, umfundi oyedwa, aBangaphantsi okanye abalinganayo kuhlahupu - Abafundi mabachonge ihlahupu enezingaphezu/ngaphantsi/ezilinganayo nenye 	<p>Usuku olu-1</p> <p>iihlahupu ezi-2</p>

Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiweyo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)			
Iveki yama- 39	Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo
1.4 Chaza, thelekisa uze ulandelelanise amanani		<p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Beka izixhobo zokubala ezili-10. ezi- 6 nezi- 4 etafileni. - Nika inani lezixhobo zokubala eziphezu kwetafile - Buza le mibuzo: "Ingaba zingaphezu kwesi- 7?" "ingaba ziyalingana, zingaphantsi, zimbawwa, zonele, azonelanga?" - Bayalele ba: "qonde iimpendulo zabo ngokubala izixhobo zokubala." "ingaba uqikelele kangakanani?" 	Izixhobo zokubala
		<p>Ukusebenzisa iimilo eziphathekayo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Utitshala ubonisa amakhadi amabini anamachaphaza amanani ohluka-hlukeneyo kwanemifanekiso kuwo. - Bavumele bathelekise amakhadi anemifanekiso namachaphaza kuwo, bachonge angaphezulu/ angaphantsi/malinganayo 	Amakhadi amabini anamanani ohluka-hlukeneyo ngamachaphaza nangemifanekiso

Iveki yama- 39	Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)	
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo
<p>3.1 Indawo- bume, ukufumana indawo nombonakalo</p>	<p>Amanqaku angcaciso</p> <ul style="list-style-type: none"> • Chaza izinto ezimbini okanye ngaphezulu ezinokwakheka kuka 3-D ngokunxulumene nenye. • Bhelela ulwazi ngokhohlo nokunene <p>Ukufunda usebenzisa intshukumo yomzimba</p> <ul style="list-style-type: none"> - Utitshala ubeka imizila yeenyawo ekhohlo nasekunene emacaleni onke eklasi. - Abafundi bagaqa ngengalo nedolo elinye lasekhohlo nelasekunene ngaxesha linye. - Benjenjalo besiya apho kukho isitya sokuhlambela  	<p>Imizila yeenyawo esephepheni, ebonisa ekhohlo/ekunene</p> <p>Isijungqe sewulu ebomvu</p>
	<p>Utitshala uqhina iwulu ebomvu kwisihlahla somfundi ngomnye sasekunene. Utitshala unika imiyalelo.</p> <ul style="list-style-type: none"> - Phakamisa unyawo lwakho lwasekhohlo. - Beka unyawo lwakho lwasekunene esitulweni. - Bamba idolo lakho lasekhohlo ngengqiniba yakho yasekunene.. - Tsala indlebe yakho yasekhohlo ngesandla sasekunene. - Beka isandla sakho sasekunene kwigxalaba lakho lasekhohlo, isandla sakho sasekhohlo kwigxalaba lasekunene. - Zigone. (isandla ngasinye sinqumle umbindi ukuya kwigxalaba lenye ingalo) 	

Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)		
Isihloko	Amanqaku angcaciso	Izixhobo ezicetyiswayo
<p>Iveki yama- 39</p> <p>3.1 Indawo- bume, ukufumana indawo nembonakalo</p>	<p>Amanqaku angcaciso</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Utitshala ubeka iinkonkxa ezisi-7 phezu kwetafile - Abafundi mabachaze inani elisekhohlo ku-3, elisekunene ku-6, eliphakathi ko- 3 no- 6. - Leliphi inani lokuqala nelokugqibela.  <ul style="list-style-type: none"> - Utitshala ubeka iimoto/oonodoli aba-3 abanxibe imibala egqamileyo phezu kwetafile. - Ubuza imibuzo enjenge: <ul style="list-style-type: none"> o Ngowuphi unodoli/ imoto esekhohlo? o Ngowuphi unodoli/ imoto esekunene? o Ngowuphi unodoli/ imoto ephakathi? o Yeyiphi imoto/unodoli wokuqala/wokugqibela? <p>Ukusebenzisa iimilo ezinokwakheka kuka 2-D okanye imifanekiso</p> <ul style="list-style-type: none"> - Ngexesha lokuyila okubonwayo abafundi benza imizila yepeyinti besebenzisa izandla zasekhohlo nesasekunene. - Bayasika bancamathelese emaphepheni bebonisa unyawo lwasekhohlo nolwasekunene. 	<p>Iinkonkxa ezibhalwe amanani.</p> <p>Iimoto/oonodoli aba-3.</p>
<p>2.1 Iipateni zejiyometri</p>	<p>Yila ipateni yakhe</p> <p>Ukusebenzisa izinto eziphathekayo ezinokwakheka kuka 3-D</p> <ul style="list-style-type: none"> - Abafundi bakopa iipateni kwezo bazinikiwayo. - Bazenzela ezabo iipateni baze bazichaze. 	<p>Amakhadi emilo nepateni.</p> <p>Usuku olu-1</p>

Ixesha lokufundisa elicetyiswayo: Umsebenzi ocwangcisiwayo okhokelwa ngutitshala (isangqa) imizuzu engama- ± 30 ngemini (imisebenzi emi-± 5 yeMathematika ngeveki)			
Iveki yama- 39	Amanqaku angcaciso	Izixhobo ezicetyiswayo	Ixesha elimisiweyo
<p>Isihloko</p> <p>2.1</p> <p>Iipateni zejijometri</p>	<p>Amanqaku angcaciso</p> <p>Umsebenzi wePhegibhodi (peg board): Bayalele basebenzise izandla zasekunene kuqala, zasekhohlo, zozibini ukubeka iiphegi kwiphegibhodi.</p> <ul style="list-style-type: none"> - Utitshala uxelela abafundi apho kubekwa khona iiphegi, umz. <ul style="list-style-type: none"> o Kumgca ophezulu. o Kumgca osezantsi. o kwicala ekhohlo. o ekunene. o phakathi. <p>Bavumele be/ba:</p> <ul style="list-style-type: none"> - nze iimilo kwiphegibhodi ngeephegi ezimibala-bala. - Uritshala uhlula-hlula ipateni elula ngeephegi kwiphegibhodi yakhe baze abafundi bakope ipateni bayibeke kwiiphegibhodi zabo. 	<p>Iphegibhodi neephegi.</p> <p>iipateni ekukotshwa kuzo ngabafundi.</p>	<p>Ixesha elimisiweyo</p>

Iveki yama- 40 Sebenzisa iveki 40 ukwenza izisombululo ezikhankanyiweyo okanye izithintelo kufundo.	
Umxholo	Isihloko
Inani nee- Opareyishini	1.1 Bala izinto
	1.4 Chaza, thelekisa uze ulandelelanise amanani
lipateni ne fankshini	1.6 Ubuchule bokusombulula iingxaki zezibalo
	1.7 no 1.13 Ukudibanisa nokuthabatha
Isithuba nemilo(Jijiyometri)	2.1 lipateni zejijiyometri
	3.1 Indawo-bume, ukufumana indawo nembonakalo
Umlinganiselo	3.2 izinto ezinokwakheka kuka 3-D no 3.3 Izinto ezinokwakheka kuka 2-D
	3.4 Ulingano -macala
Ukusebenza ngolwazi oluqokelelweyo	4.2 Ubude
	5.1 Qokelela uze uhlele izinto
Umlinganiselo woHlolo	5.2 Bonisa ingqokelela yezinto ezihleliweyo
	5.3 Xoxa uze unukezele ingxelo ngenqokelela yezinto ezihleliweyo

Umlinganiselo woHlolo

Qikelela nokucengeleza ukubala ukuya kwi - 10 (iingoma zamanani nezicengecelezo)

Bala ukuya phambili nokubala ubuya umva (0-10)

Bala ngezi- 2 (iingoma zamanani nezicengecelezo)

Qonda ingqiqo ngo: "zininzi" no "zimbawwa" (uqhweba)

Qonda ukuqhweba okuninzi/nokumbalwa

Nakana nokuqaphela amanani kwiimeko eziqhelekileyo, umz. ubudala irejista

Hlula phakathi ko-ngaphezulu kune-, ngaphantsi kune- eyona i -, iilingana ne – ukuya kwi - 10

Qonda amanani olandelelwano - elokuqala, elesibini, elesithathu, elesine,njl.

Sebenzisa izixhobo ezibonwayo

Chaza into oyicingayo ngamagama .ngokuzoba nangezinto eziphathekayo

Sombulula udibaniso nothabatho ngomlomo ubandakanya amanani ukuya kwi - 10

Kopa, yandisa nokuyila lipateni eziviwayo

landela umdlalo ka"sikhoji"

Yazi iingqiqo:ecaleni kwe,phakathi nasembindini,ekhohlo nasekunene

Qonda iingqiqo: ngaphambili,ngasemva,phozulu,ezantsi,ekhohlo ekunene

yazi ukwakha ubuncinane iphazili ezingama- 24

nakana nokuchonga isangqa, unxantathu, isikwere, nexande

nakana umgca wolingano -macala kwizinto

Qonda ukuba izinto zinokuthathwa umlinganiselo kuseiyenziswa iteyipu

Kwazi ukuqokelela, ukuhlela, ukuzoba, ukufunda, nokubonisa izinto ngokophawu olunye.

ISAHLUKO 4: UHLOLO

4.1 INTSHAYELELO

UkuHlola yinkqubo eqhubekayo yokufunda ecwangcisiweyo yokuchonga, ukuqokelela nokutolika ulwazi malunga nendlela abaqhuba ngayo abafundi, usebenzisa iindlela ezahlukeneyo zokuHlola. Oku kubandakanya amanyathelo amane:

- Ukuqokelela ubungqina bokusebenza komfundi
- ukuphonononga obu bungqina
- ukurekhoda okufunyanisiweyo noku
- sebenzisa olo lwazi ukuqondisisa nokuncedisa uphuhliso lwabafundi ukuphuhlisa ukufunda nokufundisa.

UkuHlola kufanela kusekwe kokungekho sikweni (ukuHlola kokufunda nokuseSikweni (ukuHlola kokufunda). Kwi-imeko zombini kunikwa ingxelo ekufanele abafundi bayazi ngokufunda kwabo.

Kwinqanaba elisisiseko, obona buchule bungundoqo kuHlolo oluseSikweni nolungekho seSikweni kukujongwa baqatshelwe ngutitshala, iingxoxo zomlomo, imiboniso eyenziwayo nokurekhodisha ephepheni. UkuHlola kwiBanga labaqalayo malwenziwe ngNgomlomo nezenziwayo.

4.2 UKUHLOLA OKUNGEKHO SESIKWENI OKANYE KWEMIHLA NGEMIHLA

UkuHlola kokufunda kunenjongo yokuthi gqolo ukuqokelela ulwazi malunga nokusebenza komfundi . Oku kubizwa ngokuba kukuHlola okungekho seSikweni. Oku kukubeka esweni rhoqo kwenkqubo yomfundi. Oku kwenziwa ngokubonisa, ngokuxoxa, ngokwenza imisebenzi yeprekthikhali, imiboniso, ukusebenzisana okungekho seSikweni eklasini, njalo njalo. Makungabonwa oku njengokwahlukileyo koko kwaseklasini. UkuHlola okungekho seSikweni kunceda ukuba utitshala abeke esweni inkqubo yomfundi nokwenza izigqibo ezisekelwe kokufunyaniswe yonke imihla. UkuHlola okungekho seSikweni kusetyenziswa uku:

- Ukunika ingxelo kubafundi
- Ukuncedisa kwisicwangciso sokufundisa.

Ngamanye amaxesha utitshala unokugcina itshekhilisti okanye asebenzise uludwe lwenkqubo yokukhangela njen-gendlela yokurekhoda inkqubo yabafundi. Ngamanye amaxesha abafundi okanye ootitshala banokumakisha le misebenzi yokuHlola. Noko kunjalo, ukuHlola okungekho seSikweni aluyiyo inxalenye yokurekhodishwa njengoHlolo oluseSikweni. Iziphumo zemisebenzi yokuHlola zemihla ngemihla azithathelwa ngqalelo ekunyuselweni nasekukhutshelweni isatifikethi.

4.3 UKUHLOLA OKUSESIKWENI

Yonke imisebenzi yokuHlola iyinxalenye yenkqubo eseSikweni yokuHlola yonyaka kwaye ithatyathwa njengokuHlola okuSeSikweni. Imisebenzi yokuHlola okuseSikweni iyamakishwa ize irekhodishwe ngokuseSikweni ngutitshala elungiselela ukuqhubela phambili nokukhutshwa kwesatifikethi. Imisebenzi yokuHlola okuseSikweni iyinxalenye yeNkqubo yokuHlola yonyaka eseSikweni kwiBanga ngalinye nakwisifundo ngasinye.

Utitshala unokujonga abafundi abali-10 ngexesha, ngoko imisebenzi yokuHlola okuseSikweni yenziwa ngokukodwa kwumatyeli ogxininiso emaqeleni amancinane, yaye kuthabatha iintsuku ezimbalwa ukuHlola iklasi yonke. Zonke izixhobo abaqhele ukuzisebenzisa abafundi, mazibe khona njengesiqhelo (izixhobo zokubala, iitshati zamanani njalo njalo).

Iindlela zokuHlola ezisetyenziswayo mazibe kwizinga neminyaka efanelekileyo, zibe nokukhulisa kubafundi. UkuHlola okuseSikweni makulungiselele onke amanqanaba anengqiqo nabanako ukukwenza abafundi. Indlela eyilwe ngayo le misebenzi ma iquke umxholo wesifundo ngeendlela ezahlukeneyo.

lindlela ezahlukeneyo zokuHlola (ukukhangela, Ngomlomo, ezenziwayo nezibhalwayo) mazisetyenziswe ukunika umfundi ngamnye ithuba lokubonisa akwaziyo ukukwenza. Oku kwenziwa kuba abanye abafundi babonisa abakwa-ziyo ukukwenza ngohlobo oluthile lwendlela yokuHlola. Umzekelo,

- Abanye abafundi abafumana kunzima ukufunda, benza kakuhle kwiMathematika.
- Abanye abafundi Bangangabikho kwizinga elamkelekileyo kulwimi lokufunda nokufundisa.

Imisebenzi yokuHlola kwiMathematiki mayibandakanye imisebenzi engaxhomekekanga kulwimi, engaxhomekekanga kukwazi ukufunda, ukubonisa eyona nto banako ukuyenza abafundi.

Noko kunjalo, mayiqondakale eyona nto eHlolwayo. Ulwazi nezakhono ezithile ziHlolwa ngokukuko ngeendlela ezithile zokuHlola. Iintlobo ezahlukeneyo zokuHlola zilungele izakhono neengqiqo ezidingekayo kwiintlobo ngeentlobo zezihloko ngokweminyaka yabafundi. Kuluncedo ukusebenzisa itshekhlisti yokukhangela ukuHlola abafundi besenza imilinganiso kumaBanga abaqalayo. IiRubhriki zingasetyenziswa ukuvavanya izakhono zabafundi zokusombulula iingxaki.

4.4 INKQUBO YOKUHLOLA OKUSESIKWENI

Imisebenzi yokuHlola okuseSikweni yeMathematiki ibandakanya ngaphezu kwesihloko esinye kwiMathematiki. Imisebenzi yokuHlola ngonyaka kufuneka iquke zonke iinkalo zomxholo nezihloko, kodwa asiyo yonke into kwiimfuno zekharithulam ema ihlolwe kwenziwe ingxelo ngayo ngokuseSikweni. Amanani, ukusebenza nolwalamano kwenza ipesenti engama- 60% yeMathematiki kwiBanga labaqalayo . Le nto ithetha ukuthi ipesenti engama - 60% yokuHlola okuseSikweni iKota nganye ngonyaka ma igxininise kumanani, imisebenzi nolwalamano.

Umsebenzi wokuHlola okuseSikweni ma ungabonwa njengesiganeko esinye okanye uvavanyo olunye. Eminye imilinganiso yokuHlola ingasetyenziswa ngexesha elinye, kodwa eminye ingaHlolwa ngamaxesha ohlukeneyo. Umzekelo, ukuba isakhono sokubala ngokuqakatha siyaHlolwa , ukukwazi ukwenza oku kulandelayo kungaHlolwa kuwo lo msebenzi umnye:

- Ukugqibezela ukubala ngokulandelelanisa
- Ukufunda nokubhala iisimboli zamanani
- Ukubala

Nangona kunjalo, ukuba umsebenzi wokuHlola uquka ukusombulula izibalo zamanani zamazwi ngokwenza amaqela okanye ukwahlula ngokulinganayo, nokuHlola abantwana ukukwazi ukwenza umlinganiselo womthamo; Kungenzeka ukuba le miba yeMathematiki iHlolwe ngamaxesha angafaniyo nangeendlela ezahlukeneyo.

4.5 UKUREKHODISHA NOKUNIKA INGXELO NGOMSEBENZI

Ukurekhoda yinkqubo apho utitshala abhala phantsi izinga lokusebenza lomfundi ngamnye kumsebenzi othile ohlolwayo. Kubonisa inkqubela-phambili yomfundi ekuzixhobiseni ngolwazi oluxeliweyo ngokweNkcazelo zePolisi yeKharithulam nokuHlola. Iirekhodi zomsebenzi womfundi kufanele zinike ubungqina ngenkqubela-phambili yomfundi ngokweBanga kunye nokulungela kwakhe ukuqhubela phambili xa epasile ukuya kwiBanga elilandelayo.

Iirekhodi zomsebenzi womfundi kufanele zisetyenziswe ukungqinisisa inkqubela-phambili eyenziwe ngootitshala nabafundi kwinkqubo yokufundisa nokufunda.

Ukukhupha iripoti okanye ingxelo yinkqubo yokwazisa abafundi, abazali babo, isikolo nabanye abathathi-nxaxheba malunga nendlela asebenza ngayo umfundi ezifundweni zakhe gabalala. Zininzi iindlela ezisetyenziswayo ukunika iripoti okanye ingxelo ngomsebenzi womfundi. Ziquka amakhadi eripoti okanye engxelo, ukubiza iintlanganiso nabazali, iintsuku zokutyelela esikolweni, iinkomfa zabazali nootitshala, ukufownela abazali, ukuthumela iileta kubazali, ukuthumela oolindexesha besikolo okanye beklasi kubazali, njalo njalo. Ootitshala kumaBanga onke banika iripoti

MATHEMATIKA IBANGA LABAQALAYO (R)

okanye ingxelo ngokweepesenti ngesifundo ngasinye. Amazinga ohlukeneyo okusebenza kunye neepesenti ahambelana nazo adweliswe kwiTheyibhile engasezantsi.

IIKHOWUDI NEEPESENTI ZOKUREKHODA NOKURIPOTA (NOKUNIKA INGXELO NGOMSEBENZI)

KHOWUDI	INKCAZELO NGENDLELA AQHUBE NGAYO KUMSEBENZI WAKHE UMFUNDI	IPESENTI
7	Uphumelele emagqabini	80 – 100
6	Ugqwesile	70 – 79
5	Uphumelele ngokuqaqambileyo	60 – 69
4	Uphumelele ngokwanelisayo	50 – 59
3	Uphumelele ngokufanelekileyo	40 – 49
2	Uphumelele ngokuyinxalenye	30 – 39
1	Akaphumelelanga	0 - 29

4.6 ULWAZI GABALALA

Le dotyhumentu kufanele isetyenziswe nezi zilandelayo

4.6.1 *National policy pertaining to the programme and promotion requirements of national Curriculum statement Grades R-12; and*

4.6.2 The policy document, *National Protocol for Assessment Grades R-12*

4.7 IMIZEKELO YEETSHEKILISTI ZOHLOLO OLUSESIKWENI EZICETYISWAYO

Imizekelo yeetshekilisti zokuHlola inikiwe kwiBanga labaQalayo (R) ngezantsi: Injongo kukuncedisa ootitshala bacwangcise baze benze uHlolo oluseSikweni ngendlela eqhubekayo.

IMIZEKEKLO YEETSHEKILISTI ZEBANGA LABAQALAYO (R)				
IKOTA YOKU - 1				
Inkalo yomxholo	Umxholo	Umlinganiselo wokuHlola	✓ okanye x	Ukuphawula
Amanani, ii-Opereyshini noLwalamano	Ukubala	Ukuqikelela aze abale ngokucengceleza ukuya kuzi- 5 (lingoma nezicengcelezo zamanani zibandakanywe ukukhulisa ingqiqo yamanani)		
	Unakano lwamanani	Ukunakana amanani kwiimeko eziqhelekileyo umzekelo: iminyaka yokuzalwa, rejista(isigama esisetyenziswa xa kufundwa amanani)		
		Ukuqonda amanani ngokulandelelana (umzekelo ngexesha lesiqhelo lokuya ngasese)		
	Ingqiqo ngamanani	Ukuqondana phakathi komnye nomnye/ukungqamanisa (Itshati yomncedisi ngexesha lesidlo)		
	Ukuchonga nokuchaza amanani apheleleyo	Ukuchonga imifanekiso yamanani namakhadi amachaphaza equka inani u-1		
		Ukwazi isimboli yenani u-1		
Ukunakana igama lenani u-1				
Ukusombulula izibalo zamanani zamazwi	Ukusebenzisa izixhobo eziphathekayo			
	Ukuchaza iingcinga zakhe ngamazwi nangemizobo okanye izinto eziphathekayo			
Iipateni neFankshini	Ukukopa, wandise, uze uyile iipateni zakho	Ukuchonga iipateni kokusingqongileyo		
		Ukukopa, andise aze ayile iipateni ezizezakhe		

IMIZEKEKLO YEETSHEKILISTI ZEBANGA LABAQUALAYO (R)

IKOTA YOKU - 1

Inkalo yomxholo	Umxholo	Umlinganiselo wokuHlola	√ okanye x	Ukuphawula
Isithuba nemilo	Ukunakana, achonge aze axele izinto ezinokwakheka kuka 3-D	Ukunakana, achonge aze abize iibhola		
		Ukunakana, achonge aze abize iibhokisi		
	Ukunakana, achonge aze axele izinto ezinokwakheka kuka 2-D	Ukunakana, achonge aze abize iisimboli zakhe, iisimboli zabahlobo kunye negama leklasi		
		Ukwakha ebuncinaneni iphazili emaqhekeza ma- 6		
		Ukubonisa ukukwazi ukohlula phakathi kwezinto ezifotwe zankulu ngaphambili nezo zifotwe zancinci ngemva(foreground and background)		
	Iimilo zejiyometri	Ukuchonga nokunakana isangqa		
		Ukuchonga nokunakana unxantathu		
		Ukuchonga nokunakana uxande		
	Ukuchaza, ahlele aze athelekise izinto ezinokwakheka kuka 3-D ngokwe::	Ukutholekisa ukuba kwizinto eziqokelelweyo ezimbini, yeyiphi enkulu kunenye, encinane kunenye, enkulu kuzo zonke, eyona incinane kuzo zonke		
		Ukulelela izinto ngokobungakanani – enkulu nencinane		
		Umbala – Imibala engundoqo (bomvu, qanda, bhlowu)		
		Imilo – isangqa, unxantathu noxande		
		Izinto eziqengqelekayo		
	Ukunakana umgca wolingano-macala:	Ukunakana umgca wolingano-macala kwisiqu sakhe		
		Ulwalamano ngokwezithuba:	Ukwazi phambi kwe-/ ngemva kwe-	
Ukwazi phezulu kwe-, phantsi kwe-				
Indawo-bumilo yezinto ezimbini ngokunxulumene nomfundi		Ukwazi ngaphakathi, ngaphandle		
		Ukwazi phezulu, phantsi		
Inggqiqo yokwalathisa	Ukuqonda la magama: ukuya phambili, emva, phambili nasemva			
Umlinganiselo	Ixesha	Ukusebenzisa amagama anjengo: usuku, ubusuku, ubumhlophe nobumnyama, kusasa, emalanga, ngobusuku, ukuchaza ixesha losuku		
		Ukulandelelanisa izinto ezenzekayo ngosuku (Inkqubo yosuku)		
		Ukubonisa nokwazi iintsuku zeveki, amaxesha onyaka nemozulu		
		Ukwazi iintsuku zokuzalwa zabo		
	Ubude	Ukwahlula phakathi ko: inde, inde kunenye, inde kuzo zonke, imfutshane, imfutshane kunenye, imfutshane kuzo zonke (Itshati yobude)		
Ukusebenza ngolwazi oluqokelelweyo	Ukuqokelela, ahlele, azobe, afunde aze abonise ulwazi	Ukukwazi ukuqokelela, ahlele, azobe, afunde aze abonise (atolike) izinto ngokophawu olunye.		

UHLELO LUKUGQIBELA:

IMIZEKELO YEETSHEKHILISTI ZEBANGA LABAQUALAYO(GRADE R)				
IKOTA YESI- 2				
Inkalo yomxholo	Umxholo	Umlinganiselo wokuHlola	√ okanye x	Ukuphawula
Amanani, ii-Opareyshini noLwalamano	Ukubala	Qikelela aze abale ngokucengceleza ukuya ku- 5 (lingoma nezicengcelezo zamanani zibandakanywe ukukhulisa ingqiqo yamanani)		
		Bala ukubuya umva nokuya phambili (1-4)		
		Qonda amagama “ninzi no mbalwa” (uqhweba)		
	Unakano lwamanani	Nakana amanani kwiimeko eziqhelekileyo umzekelo: inombolo yendlu, irejista yedilesi		
	Ukuchonga nokuchaza amanani apheleleyo	Chonga imifanekiso yamanani namakhadi amachaphaza		
		Zazi iisimboli zamanani 1, 2, 3, 4		
		Nakana amagama amanani - mbini, ntathu, ne		
	Ingqiqo ngamanani	Qondana phakathi komnye nomnye/ukungqamanisa (Itshati yomncedisi ngexesha lesidlo)		
		Hlula phakathi kwamagama: ngaphezu, ngaphantsi nokulingana, ninzi nezimbalwa ukuya kuzi-4		
		Nakana iintlobo zemali ezinkozo/mwangelala yoMzantsi Afrika		
Ukusombulula izibalo zamanani zamazwi	Sebenzisa izixhobo eziphathekayo			
	Chaza iingcinga zakhe ngamazwi nangemizobo okanye izinto eziphathekayo.			
	Sombulula izibalo zamanani zomlomo ngokudibanisa nokuthabatha ukuya ku- 4			
Iipateni neFankshini	Ukukopa, wandise, uze uyile iipateni zakho	Kopa, wandise, uze uyile iipateni zakho (izinto, iimilo nemali ezinkozo)		
Isithuba nemilo	Ukunakana, achonge aze axele izinto ezinokwakheka kuka 2-D	Yakha iphazili emaqhekeza ali -12 ubuncinane.		
		Bonisa ukukwazi ukohlula phakathi kwezinto ezifotwe zankulu ngaphambili nezo zifotwe zancinci ngemva (foreground and background) (Hlola kwakhona)		
	Iimilo zejiyometri	Nakana nokuchonga unxantathu		
		Qonda agcine ulwazi luka nxantathu (ugcino-lwazi lwemilo)		
	Ukunakana, achonge aze axele izinto ezinokwakheka kuka 3-D ngokwe:	Thelekisa ukuba kwizinto eziqokelelweyo ezimbini, yeyiphi enkulu kunenye, encinane kunenye, enkulu kuzo zonke, eyona incinane kuzo zonke		
		Hlela izinto ngokobungakanani– ende nemfutshane		
		Imibala – (bomvu, qanda, bhlowu noluhlaza)		
		Iimilo		
	Ukwakha izinto ezinokwakheka kuka 3-D esebenzisa izinto eziphathekayo	Phicotha ukwakha ngeebhloko		
	Ukunakana umgca wolingano-macala:	Ukunakana umgca wolingano-macala kwisiqu sakhe nokumngqongileyo		
Ulwalamano ngokwezithuba	Ukuqonda indawo-bumilo yezinto ezimbini nangaphezulu ngokungqamene nomfundi			
	Phezu kwe, phantsi kwe			

IMIZEKELO YEETSHEKHILISTI ZEBANGA LABAQUALAYO(GRADE R)

IKOTA YESI- 2

Inkalo yomxholo	Umxholo	Umlinganiselo wokuHlola	√ okanye x	Ukuphawula
Umlinganiselo	Ixesha	Qonda iintsuku zeveki, amaxesha onyaka netshati yemozulu (iingoma nezicengcelezo – Hlola kwakhona) Lazi usuku lwakhe lokuzalwa (Hlola kwakhona)		
	Ubude	Hlula phakathi kwe; eyona inde, eyona imfutshane, (Itshati yobude)		
Ukusebenza ngo lwazi oluqokelelweyo	Ukuqokelela, ahlele, azobe, afunde aze abonise ulwazi	Kwazi ukuqokelela, ahlele, azobe, afunde aze abonise (atolike) izinto ngokophawu olunye.		

UHLELO LUKUGQIBELA:

IMIZEKELO YEETSHEKHILISI ZEBANGA LABAQUALAYO(GRADE R)

IKOTA YESI - 3

Inkalo yomxholo	Umxholo	Imilinganiselo yoHlolo	√ okanye x	Amagqa-bantshintshi
Amanani,ii-Opareyshini noLwalamano	Ukubala	Qikelela nokubala ngokucengceleza ukuya kwi - 7 (iingoma nezicengcelezo zamanani zibandakanywa ukukhulisa ingqiqo ngamanani)		
		Bala ubuya umva nokuya phambili (1 -7)		
		Ukwazi ukuba kuqhwytywa kangaphi ngaphezulu/ ngaphantsi		
	Ukunakana amanani	Nakana amanani kwiimeko eziqhelekileyo - umzekelo: iminyaka yokuzalwa, irejista (Hlola kwakhona)		
	Ukuchonga nokuchaza amanani apheleleyo	Chonga imifanekiso yamanani namakhadi amachaphaza ukuya kwinani i - 7		
		Ukwazi iisimboli zamanani 5, 6, 7		
		Nakana amagama amanani ; hlanu, ntandathu, sixhenxe		
	Ingqiqo ngamanani	Ukwahlula phakathi ko: ngaphezulu, ngaphantsi nezilingana, zininzi nezimbalwa ukuya kwi -7		
		Nakana umbala neentlobo zezilwanyana kokubhaliweyo eMzantsi Afrika		
	Ukusombulula izibalo	Sebenzisa izixhobo eziphathekayo		
Chaza iingcinga zakhe ngamazwi nangemizobo okanye izinto eziphathekayo				
	Ngomlomo usombulula izibalo ukuya kwi-7 ngokudibanisa nokuthabatha			
lipateni neFankshini	Ukukopa, wandise aze ayile iipateni zakhe	Kopa, andise aze ayile iipateni zakhe esebenzisa imifanekiso		

Isithuba nemilo (Ijyometri)	Nakana, achonge aze axele iimilo/ imifanekiso enokwakheka kuka 2-D	Yakha iphazili enezicwili/izijungqe ezili- 18 ubuncinane		
	Iimilo zejyometri	Nakana, achonge aze axele uxande		
		Qonda ugcino- milo olufundiweyo (shape conservation)		
	Ukwakha izinto ezinokwakheka kuka 3-D esebenzisa izixhobo eziphathekayo	Yakhela kumzekelo wokwakha onikiweyo		
		Kopa isakhiwo kuyilo nekhadi lomfanekiso		
Uzalwano lwesithuba	yazi imeko -bume yezinto ezimbini nangaphezulu ngokuzalana kwazo			
	Phambi kwe-, emva kwe-, ngaphezu kwe-, phantsi kwe-, ezantsi kwe-, kufuphi ne-, ecaleni kwe-, phakathi, ekhohlo nasekunene			
	UYenza ngokwemiyalelo kwi phegi-bhodi			
Ingqiqo yokwalathisa	Yazi izalathiso kwitshati yokukhomba			
Umlinganiselo	Ubude	Qikelela nokwenza umlinganiselo kubude bezinto ezahlukeneyo		
	Ubunzima	Qonda amagama anjengo: “ubulula, ubunzima, ilula kunenye, inzima kunenye, eyona ilula kuzo zonke, eyona inzima kuzo zonke”		
	Umthamo	Landela amagama ajengo: ize, izele, ngaphezu kwe-, ngaphantsi kwe-		
Ukusebenza ngolwazi oluqokelelweyo	Ukuqokelela, ahlele, azobe, afunde aze abonise ulwazi	Kwazi ukuqokelela, ahlele, azobe, afunde aze atolike izinto ngokophawu olunye		

UHLELO LOKUGQIBELA

IMIZEKELO YEETSHEKHILISI ZEBANGA LABAQUALAYO (GRADE R)

IKOTA YESI - 4

Inkalo yomxholo	Umxholo	Imilinganiselo yoHlolo	√ okanye x	Amagqa-bantshintshi
Amanani, li-opareyshini noLwalamano	Ukubala	Qikelela nokubala ngokucengceleza ukuya kuzi - 10 (iingoma nezicengcelezo zamanani zibandakanywa ukukhulisa ingqiqo ngamanani)		
		Bala ukuya emva nokuya phambili (0 -10)		
		Bala ngezi- 2 (lingoma nezicengcelezo zamanani)		
		Qonda amagama anjengo: “ninzi no mbalwa” (ngokuqhweba)		
		Qonda ukuba uqhweba kangaphi ngaphezu/ ngaphantsi, elona lininzi/ elona lincinane		
		Chonga umfanekiso wenani kunye namakhadi anamachaphaza ukusuka kwi-0 ukuya kwi-10		
		Zazi iisimboli zala manani 8,9,10 ne-0 kwaye:		
		Anakane amagama ala manani- isibhozo, isithoba, ishumi neqanda		
		Gqibezela ulandelelwano lwamanani alula ukusuka kwinani u-1 ukuya kwi-10		
	Ukunakana amanani	Nakana aze achonge amanani kwiimeko eziqhelekileyo - umzekelo iminyaka yokuzalwa, irejista yamanani		
	Ukuchonga nokuchaza amanani apheleleyo	Chonga imifanekiso yamanani namakhadi amachaphaza ukusuka 0 – 10		
		Zazi iisimboli zamanani 8, 9, 10		
		Nakana amagama amanani - isibhozo, ithoba neshumi kunye ne – 0		
		Gqibezela ulandelelwano olulula lwamanani ukusuka ku 1-10		
	Ingqiqo ngamanani	Hlula phakathi ko: ngaphezulu, ngaphantsi, ilingana, ezona zininzi nezona zimalwa ukuya kwi nani i-10		
Qonda amanani alandelelanayo - eyokuqala, eyesibini, eyesithathu, eyesine, eyesihlanu neyesithandathu				
Ukusombulula izibalo	Sebenzisa izixhobo eziphathekayo			
	Chaza iingcinga zakhe ngamazwi nangemizobo okanye izinto eziphathekayo			
	Ngomlomo usombulula izibalo zamanani ngokudibanisa nokuthabatha amanani ukuya kwi – 10			
IiPateni neFankshini	Ukukopa, wandise aze ayile iipateni zakhe	Kopa, andise aze ayile iipateni ezimanyelweyo zakhe		
		Qonda umdlalo “ uSkhotshi/ uGuni / uNochelesi / uNochelu”		
Isithuba nemilo (ijiyometri)	Ukunakana, achonge aze axele iimilo ezinokwakheka kuka 2-D	Kwazi ukwakha iphazili emaqhekeza engama- 24 ubuncinane		
	Iimilo zejiyometri	Nakana aze achonge isangqa, unxantathu, uxande nesikwere		
	Ukunakana umgca wolingano-macala	Nakana umgca wolingano-macala kwizinto		
	Uzalwano lwesithuba	Yazi amagama anjengo: kufuphi ne-, phakathi, embindini, ekhohlo nasekunene		
		Kwazi ukwenza umsebenzi wephegi-bhodi ophambili		
Ingqiqo yokwalathisa	Qonda amagama anjengo: phambili nasemva, phezulu naphantsi, entla nasezantsi, ekhohlo nasekunene			

MATHEMATIKA IBANGA LABAQALAYO (R)

Umlinganiselo	Ubude	Qonda ukuba izinto ziyalinganiswa nangokusebenzisa itheyiphu yokulinganisa		
Ukusebenza ngolwazi oluqokelelweyo	Ukuqokelela, ahlele, azobe, afunde aze abonise ulwazi	Kwazi ukuqokelela, ahlele, azobe, afunde aze atolike izinto ngokophawu olunye		

UHLELO LOKUGQIBELA

