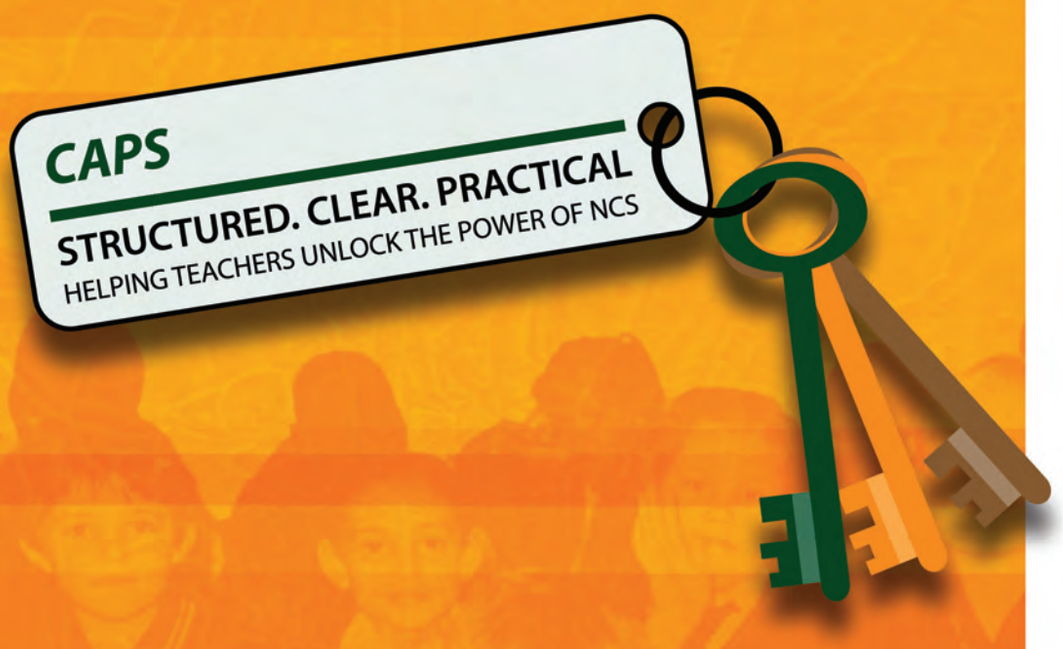
ISIZULU MATHEMATICS

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

ISITATIMENDE SENQUBOMGOMO YOHLELO LWEZIFUNDO NOKUHLOLA

IBANGA R

IZIBALO

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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

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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) and the *National Curriculum Statement Grades 10-12* to produce this document.

From 2012 the two National Curriculum Statements, 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* represents a policy statement for learning and teaching in South African schools and comprises of the following:

(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

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ISIGABA SOKU – 1: ISINGENISO NESENDLALELO

1.1. ISENDLALELO

IsiTatimende SoHlelo LweziFundo LukaZwelonke seBanga-R kuya kwele-12 (uTaHFuZwe) sikhombisa inqubomgomo yezinhlelo zezifundo kanye nezokuhlola emkhakheni wokufunda esikoleni.

Ukuze kwenziwe ngcono ukusetshenziswa kwaso, kwadingeka ukuthi kube nezichibiyelo ezithile ezizoqala ukusebenza ngoMasingana ngonyaka wezi-2012. Kwabe sekubhalwa umqulu owodwa odidiyele *IsiTatimende SeNqubomgomo YoHlelo LweziFundo NokuHlola* saleso naleso sifundo, okuwumqulu othatha isikhundla *seziTatimende zesiFundo, umHlahlandlela woHlelo lokuFunda kanye nomHlahlandlela wokuHlola Izifundo eBangeni-R kuya kwele-12*.

1.2 UKUBUKA NGAMAFUPHI

(a) IsiTatimende *SoHlelo LweziFundo LukaZwelonke seBanga-R kuya kwele-12 (kuMasingana ngonyaka wezi-2012)* simele inqubomgomo yokufunda nokufundisa ezikoleni zaseNingizimu Afrika futhi siqukethe lokhu:

(i) NesiTatimende seNqubomgomo yoHlelo LweziFundo nokuHlola kuleso naleso sifundo esifundwayo.

(ii) Umqulu weNqubomgomo, i-*National Policy pertaining to the programme and promotion requirements of the National Curriculum Statement IBanga-R kuya kwele-12,kanye*

(iii) Nomqulu weNqubomgomo, i-*National Protocol for Assessment IBanga-R kuya kwele-12 kuMasingana ngonyaka we-2012).*

(b) *IsiTatimende SoHlelo LweziFundo LukaZwelonke seBanga*-R-12 *(kuMasingana 2012), sithatha indawo yeziTatimende zoHlelo LweziFundo lukaZwelonke ezimbili ezikhona njengamanje; okuyilezi*

(i) *IsiTatimende soHlelo LweziFundo LukaZwelonke Olubukeziwe IBanga-R kuya kwelesi-9, IGazethi KaHulumeni* ye-23406 zingama-31 kuNhlaba ngonyaka wezi -2002 kanye

(ii) *IsiTatimende soHlelo LweziFundo LukaZwelonke IBanga le-10 kuya kwele-12, IGazethi KaHulumeni* ye-25545 ziyi-6 kuMfumfu ngonyaka we-2003 neye-27594 ziyi-17 kuNhlaba ngonyaka we-2005.

(c) IsiTatimende soHlelo LweziFundo lukaZwelonke esibekwe sacaciswa esigabeni u-b(i) kanye no- (ii) siqukethe le miqulu yenqubomgomo elandelayo esizomiswa ukusetshenziswa kuthi esikhundleni sayo kungene i*siTatimende soHlelo LweziFundo IBanga-R kuya kwele -12 kusuka ngonyaka wezi-2012 kuya kowezi-2014:*

(i) Isifundo/isiTatimende sesiFundo, umHlahlandlela woHlelo lokuFunda kanye nomHlahlandlela wokuHlola kwesiFundo IBanga-R kuya kwelesi-9 kanye neBanga le-10 kuya kwele -12;

(ii) Umqulu wenqubomgomo, i*National Policy on Assessment and Qualification for Schools in the General Education and Training Band okwashicilelwa kwaba umthetho kuGovernment Notice No.124 kuGovernment Gazette No. 29626 mhla ziyi-12 kuNhlolanja ngonyaka wezi-2007.*

(iii) Umqulu weNqubomgomo, i-*National Senior Certificate: iKhwalifikheshini yezinga lesi-4 kuNational Qualifications Framework (NQF),* elishicilelwa laba semthethweni *kuGovernment Gazette No. 27819* mhla zingama- 20 kuNtulikazi ngonyaka wezi-2005;

(iv) Umqulu weNqubomgomo, *isichibiyelo somqulu wenqubomgomo, weNational Senior Certificate: iKhwalifikheshini yezinga lesi-4 kuNational Qualifications Framework (NQF), ukubhekelela izingane ezinezidingo eziyisipesheli,* elethulwa *kuGovernment Gazette, No. 29466* mhla ziyi-11 kuZibandlela ngonyaka wezi-2006, lifakiwe nalo kulo mqulu wenqubomgomo, i-*National Policy pertaining to the programme and promotion requirements of the National Curriculum Statement IBanga-R kuya kwele-12; kanye;*

(v) Nomqulu wenqubomgomo,*isichibiyelo somqulu wenqubomgomo, weNational Senior Certificate: iKhwalifikheshini yezinga lesi-4 kuNational Qualifications Framework (NQF),* ukubhekelela i-*National Protocol for Assessment (IBanga-R kuya kwele-12), elashicilelwa laba semthethweni kuGovernment Notice No. 1267 kuGovernment Gazette No. 29467* mhla ziyi-11 kuZibandlela ngonyaka wezi-2006*;*

(d) Umqulu wenqubomgomo, *i-National policy pertaining to the programme and promotion requirements of the National Curriculum Statement IBanga-R kuya kwele-12,* kanye nezigaba ezitholakala esiTatimendeni seNqubomgomo soHlelo lweziFundo nokuHlola njengoba kubekiwe ezahlukweni kusuka kwesesi-2,3 kanye nesesi-4 kulo mqulu kuyingxenye yemithetho nemigomo *yesiTatimende soHlelo lweziFundo IBanga-R kuya kwele-12.* Ngalokho-ke, *ngokuka Section 6 A* we*South African Schools Act,1996 (Act No.84 of 1996,)* kwakha isisekelo sokuthi uNgqongqoshe weMfundo esemaZingeni aPhansi akwazi ukunquma imiphumela kanye nemigomo emincane nje okungasukelwa kuyo, kanye nenqubo, nendlela yokwenza ukuhlola kokuphumelela komfundi ukuba kusetshenziswe ezikoleni zomphakathi nalezo ezizimele.

1.3 IZINHLOSO EZIVAMILE ZOHLELO LWEZIFUNDO ZASENINGIZIMU AFRIKA

(a) *IsiTatimende soHlelo lweziFundo lukaZwelonke IBanga-R kuya kwele-12* sikhombisa lokho okuthathwa ngokuthi kungulwazi, amakhono namagugu adinga ukufundwa ezikoleni zaseNingizimu Afrika. Lolu Hlelo lweziFundo luhlose ukuqinisekisa ukuthi abafundi bathola babuye basebenzise ulwazi namakhono njengendlela ahambisana ngayo nezimpilo zabo. Ngale ndlela uHlelo lweziFundo lukhulisa ulwazi lwezimo abaphila kuzona, babenozwelo kuzibopho zomhlaba jikelele.

(b) *IsiTatimende SoHlelo LweziFundo LukaZwelonke seBanga-R kuya kwele-12 sihlose lokhu:*

- Ukuhlomisa abafundi, noma ngabe bavela kuziphi izimo zenhlalo yomphakathi nezomnotho, ubuzwe, ubulili, ukukwazi ukusebenzisa umzimba nengqondo/ukuhlakanipha, ngolwazi, amasu nokungamagugu adingekayo ukuze bakwazi ukuzenelisa, nokubamba iqhaza elibonakalayo emphakathini njengezakhamuzi zezwe elikhululekile.
- Ukuvumela abafundi ukuba bangene emikhakheni yemfundo ephakeme.
- Ukwenza kube lula kubafundi ukwedlulela ezikhungweni zemisebenzi ngemuva kokuqeda esikoleni/ imfundo yamabanga aphakeme; kanye
- Nokwedlulisela kubaqashi ulwazi oluphelele ngamakhono nakwazi ukukwenza ngempumelelo umfundi.

(c) *IsiTatimende soHlelo lweziFundo lukaZwelonke seBanga-R kuya kwele -12 sesekwe yile migomo elandelayo:*

- *Ukuguquka kwezenhlalo yomphakathi*; ukubhekelela ukungalingani kwezemfundo ngesikhathi esedlule ukuze kulungiswe, nokuthi amathuba okufunda alinganayo atholwe yiwo wonke umphakathi;
- *Ukufunda ngokuphapheme nangokuhlolisisa*; ukukhuthaza indlela yokufunda ngokuphapheme nangokuhlolisisa ekufundeni , kunokuthi abafundi bamane bagxishe emakhanda lokho abanikwe khona bebe bengayiqondi incazelo yakho;

- *Ulwazi oluphakeme namakhono aphakeme*, ubuncane obemukelekile umthetho wokulinganisa ulwazi okumele luzuzwe ebangeni ngalinye kumele bucaciswe, kubekwe nemigomo ephezulu okumele izuzwe kuzo zonke izifundo;

- *Inqubekela phambili yolwazi*; okuqukethwe nengqikithi yalelo nalelo banga kukhombise inqubekela phambili ukusuka kokulula kuya kokulukhuni.

- *Amalungelo esintu, ukudidiyela, ubulungiswa bezemvelo nezenhlalo yomphakathi;* ukufaka imigomo nenkambiso yobulungiswa bezemvelo nezenhlalo kanye namalungelo esintu njengoba echaziwe kumThethosisekelo waseNingizimu Afrika. IsiTatimende soHlelo lweziFundo lukaZwelonke seBanga-R kuya kwele-12 (Jikelele) sinozwela ezindabeni zokwehlukahlukana kwesintu njengobuphofu, ukungalingani, ubuzwe, ubulili, ulimi, ubudala nokukhubazeka kanye nezinye izimo;

- *Ukwazisa ngezinhlelo zolwazi lwendabuko*, ukwazisa ukunotha komlando namasiko aleli zwe, nomthelela obalulekile wokufundisa ngamagugu aqukethwe ngumThethosisekelo okube nawo njengomsuka wenguquko ukusiza ekuguquleni amagugu abafundi; kanye

- *Nokukholakala, uhlonze kanye nokwenza ngempumelelo*, ukuhlinzeka ngohlobo lwemfundo olungaqhathaniseka ngokuqeqesheka nangazo zonke ezinye izindlela njengakwamanye amazwe.

(d) Isitatimende Sohlelo LweziFundo Lukazwelonke seBanga-R kuya kwele-12 sihlose ukukhiqiza abafundi abazokwazi:

- Ukubona baxazulule izinkinga, bakwazi nokwenza izinqumo besebenzisa ukucabanga ngokuhlaziya nangobuchule;

- Ukusebenza ngokuzinikela nabanye njengamalungu eqembu;

- Ukulungiselela, bakwazi ukuziphatha bona baphathe nemisebenzi yabo ngokuyikho;

- Ukuqoqa, bahlaziye, bahlele, bahlanganise, bahlolisise ngokucubungula ulwazi.

- Ukuxoxisana ngempumelelo besebenzisa izinto ezibukwayo, ukufanekisa ngezimpawu kanye namanye amakhono olimi ezimweni ezahlukene;

- Ukusebenzisa isayensi nobuchwepheshe ngempumelelo nangokuhlolisisa bekhombisa nokuzinikela kwezemvelo kanye nempilo yabanye; kanye

- Nokukhombisa ukuqondisisa umhlaba njengenkundla yezinhlelo ezihlobene ngokubona ukuthi izimo zokuxazulula izinkinga azenzeki ngazodwana.

(e) *Ukuhlanganisa izinhlobo zabafundi* yikho okumele kube ngumgogodla wokuhlela, ukulungiselela, nokufundisa kuleso naleso sikole. Lokhu kungenzeka kuphela uma bonke othisha bekuqonda kahle ukuthi bazobabona futhi babasize kanjani abafundi abanezihibe ekufundeni, nokuthi bazokuhlelela kanjani ukwehlukahlukana kwabafundi.

Okusemqoka ngokuhlanganisa izinhlobo zabafundi, ukuqinisekisa ukuthi zonke izithiyo ziyabonwa zigudluzwe ngayo yonke indlela ezikoleni, kumbandakanya othisha, amakomidi asemahhovisi ezemfundo, amakomidi ezikoleni, abazali kanye nezikole ezikhethekile ezisetshenziswa njengemithombo yolwazi. Ukugudluza izithiyo emakilasini, othisha bangasebenzisa amaqhinga ahlukene ezinhlelo zezifundo njengalezo zitholakala eMnyangweni wezeMfundo eyisisekelo: *Guidelines for Inclusive Teaching and Learning (2010).*

1.4 UKWABIWA KWESIKHATHI

1.4.1 IsiGaba esiyisiSekelo

(a) Isikhathi sokufundisa emkhakheni weSigaba Esiyisekelo sinjengoba sikhonjisiwe kuleli thebula elingezansi:

ISIFUNDO	IBANGA-R (AMAHORA)	IBANGA LOKU-1 KUYA KWELESI-2 (AMAHORA)	IBANGA LESI-3 (AMAHORA)
ULimi lwaseKhaya	10	7/8	7/8
ULimi lokuQala lokwEngeza		2/3	3/4
Izibalo	7	7	7
Amakhono Empilo: • Ulwazi lokuqala • Ubuciko bokusungula • Isifundo sokuzivocavoca • Okuqondene nomuntu uqobo kanye nokuphila emphakathini	**6** (1) (2) (2) (1)	**6** (1) (2) (2) (1)	**7** (2) (2) (2) (1)
ISAMBA	**23**	**23**	**25**

(b) Isikhathi sokufundisa seBanga-R, 1 neBanga lesi-2, amahora angama-23 kuthi IBanga lesi-3 kube ngamahora angama-25.

(c) Izilimi zabelwe amahora ayi-10 eBangeni-R kuya kwelesi-2 kanye namahora ayi-11 eBangeni lesi-3. Isibalo esiphezulu samahora ayisi-8 nesibalo esiphansi esingamahora ayi-7 sabelwe ULimi lwaseKhaya kanye nesibalo esiphansi esingamahora ama-2 nesibalo esiphezulu esingamahora ama-3 soLimi lokuQala lokwEngeza eBangeni loku-1 kuya kwelesi-2. EBangeni lesi-3 isibalo esiphezulu esingamahora ayisi-8 nobuncane obungamahora ayisi-7 sabelwe iziLimi zaseKhaya kanye nobuncane obungamahora ama-3 nobuningi obungamahora ama-4 oLimini lokuQala lokwEngeza.

(d) Esifundweni samakhono olwazi lokuqala, kwabiwe lhora eli-1 eBangeni-R kuya kwelesi-2 kanye namahora ama-2 njengoba kukhonjisiwe ngamahora akubakaki ethebulini eBangeni lesi-3:

1.4.2 IsiGaba esiPhakathi neNdawo (iBanga lesi- 4 kuya kwelesi-6)

Leli thebula elingezansi likhombisa izifundo nesikhathi sokufundisa esibekiwe sesigaba esiphakathi nendawo:

ISIFUNDO	AMAHORA
ULimi lwaseKhaya	6
ULimi lokuQala lokwEngeza	5
Izibalo	6
Isayensi nobuchwepheshe	3,5
Isayensi yezokuhlalisana kwabantu	3
Amakhono Empilo • Ubuciko bokusungula • Isifundo sokuvocavoca umzimba • Okuqondene nomuntu uqobo kanye nokuphila emphakathini	**4** **(1.5)** **(1)** **(1.5)**
ISAMBA	**27,5**

1.4.3 IsiGaba esiPhakeme

(a) Isikhathi sokufundisa IsiGaba EsiPhakeme simi ngale ndlela:

ISIFUNDO	AMAHORA
ULimi LwaseKhaya	**5**
ULimi lokuQala lokwEngeza	**4**
Izibalo	**4.5**
Isayensi yezemvelo	**3**
Isayensi yokuhlalisana komphakathi	**3**
Ezobuchwepheshe	**2**
Isayensi yokuphathwa komnotho	**2**
Ukwazi ngamakhono empilo	**2**
Ubuciko bokusungula	**2**
ISAMBA	**27,5**

1.4.4 IBanga le-10 kuya kwele-12

(a) Isikhathi sokufundisa eBangeni le 10 kuya kwele-12 simi ngale ndlela:

ISIFUNDO	UKWABIWA KWESIKHATHI NGESONTO (AMAHORA)
ULimi LwaseKhaya	**4.5**
ULimi lokuQala lokwEngeza	**4.5**
Izibalo	**4.5**
Ukwazi amakhono empilo	**2**
Okungenani kungakhethwa izifundo ezintathu **eqoqweni B** Isengezelelo B, Ithebula B1 kuya ku-B8 kumqulu wenqubomgomo, *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement IBanga-R kuya kwele-12,* isifundo ngenkombandlela ebhalwe esigabeni sama-28 kumqulu weNqubomgomo obhalwe ngenhla.	**12 (3xAmahora ama-4)**
ISAMBA	**27,5**

Ukwabiwa kwesikhathi ngesonto kungasetshenziswa kuphela esibalweni esiphansi esidingekayo sezifundo zesiTatimende soHlelo LweziFundo lukaZwelonke (TAHFUZWE) njengoba kukhonjisiwe ngenhla, akumele kusetshenziswe kunoma yiziphi izifundo ezengeziwe ohlwini lwenani lezifundo ezivunyelwe. Uma umfundi efisa ukwengeza ezinye izifundo, isikhathi kumele sandiswe ukwenelisa lezo zifundo..

ISIGABA SESI – 2: INCAZELO, IZINHLOSO, IMAKHONO NOKUQUKETHWE

2.1 ISINGENISO

Kulengxenye yesibili, imfundo yezibalo kumaBanga aphansi kwisitatimende senqubomgomo yohlelo lwezifundo lukazwelonke luzonika othisha incazelo yezibalo, imiphumela eqondile namakhono aqondile, igxile ezingxenyeni zokuqukethwe, isisindo sezingxenye zokuqukethwe ezibalweni, izinsiza kufundisa ezinconyiwe kwizifundo zamaBanga aphansi ezibalweni, inqubomgomo enconyiwe ukwelekelela izingane ezinezinkinga ekufundeni izibalo, izibalo zekhanda kanye nokukhulisa amakhono okufundisa izibalo eBangeni – R.

2.2 ZIYINI IZIBALO

Izibalo ulimi olusebenzisa uphawu nezimpawu ukuchaza uphawu olumele inombolo, okusazibalomdwebo nokukhombisa ubudlelwano ngegrafu. Kuwumsebenzi lapho abantu bebuka, bebeka okumele kanye nokuphenya amaphethini nobudlelwano obuphusile okwenzeka ngokwenza enhlalweni yabo naphakathi kwezinto eziphathelene nezibalo. Igqugquzela ukusebenza ngengqondo okuthuthukisa ukucaBanga ngokuhlelekile nangokujulile, ngokucophelelekile nokuxazulula izinkinga ezinomthelela ekuthatheni izinqumo ezifanele.

2.3 IMIPHUMELA EQONDILE

Ukufunda nokufundiswa kwezibalo, kuhlose ukuthuthukisa umfundi kulokhu okulandelayo:

- ukuqaphela ngobumqoka bokuthi busebenza kanjani ubudlelwano bezibalo ngokwenhlalo, ngokwemvelo, ngokwamasiko nangokomnotho.
- ukuzethemba nokukwazi ukubhekana nezimo ezahlukene zezibalo ngaphandle kokungabaza nokwesaba ukwenza izibalo.
- uthando nentshisakalo yezibalo.
- ukuncoma ubuhle bezibalo.
- ukubona ukuthi izibalo ziwubuchwepheshe bomsebenzi wabantu
- ukuba nomcabango ojulile wokuqonda izibalo; kanye
- nokuthola ulwazi namakhono aqondile adingekayo:
    - ukusetshenziswa kwezibalo ngokwenza, ngokwenhlalo nezinkinga zezibalo;
    - ukufundiswa kwesifundo ezincike ezibalweni (isib.ezinye izifundo); kanye
    - nokuqhuba ulwazi lwezibalo.

2.4 AMAKHONO AQONDILE

Ukuthuthukisa amakhono adingekayo ezibalo, umfundi kufanele:

- ukuthuthukisa ulwazi olufanele lokusebenzisa ulimi lwezibalo;
- ukuthuthukisa ulimi lwezibalo nolwazi lwezinombolo, namakhono okubala nokusebenzisa izinombolo;
- afunde ukulalela, ukuxhumana, ukucaBanga ngokuhlelekile, kanye nokusebenzisa ulwazi lwezibalo alufundile
- afunde ukuphenya, ukuhlaziya, ukubeka okumele ulwazi nokulihumusha
- afunde ukubuza nokuxazulula izinkinga zezibalo; kanye
- nokwakha ngokuqaphela ukubaluleka kwezibalo ezimweni zempilweni nasekukhuleni komfundi.

2.5 IZINGXENYE ZOLWAZI OKUGXILWE KULO

Izibalo emaBangeni aphansi zinezingxenye ezinhlanu. Ingxenye ngayinye ilekelela ekutholeni amakhono athile. Ithebula elilandelayo likhombisa okuqukethwe yizingxenye ngokuvulelekile nezikhethekile emaBangeni aphansi.

Ithebula 2.1 Izibalo zamaBanga aphansi nolwazi okugxilwe kulo

ULWAZI LWEZIBALO		
Ingxenye Yolwazi	**Ulwazi Oluvulelekile**	**Ulwazi Olukhethekile EmaBangeni Aphansi**
Izinombolo, izimpawu kanye nobudlelwano bazo	Ukuthuthukisa ulwazi lwezinombolo olufaka: • incazelo yezinhlobo ezahlukene zezinombolo; • ubudlelwano phakathi kwezinhlobo ezahlukene zezinombolo; • ubudlelwano bobungako bazo ezahlukene; • ukubekwa okumele izinombolo ezinhlobonhlobo ngezindlela ezahlukene; kanye • nomphumela wokusebenza ngezinombolo	Uhla lwezinombolo okufanele luthuthukiswe kuyofika ekupheleni kweBanga lesi 3 lufaka izinombolo eziphelele kuze kufinyele e 1000 kanye namaqhezu ajwayelekile. KumaBanga aphansi ukufundwa kolwazi lwezinombolo luphathelene nezinsiza kufunda eziphathekayo ukuze bakwazi ukubala, bahlukanise, bahlanganise, babale ngokweqa izinombolo ngezindlela ezahlukene, baxazulule izinkinga zezibalo (zamagama), bese bekwazi ukwakha nokuhlakaza izinombolo • Ukubala kusiza abafundi ukuba bathuthukise ulwazi lwezinombolo, izibalo zekhanda, ukuqagela, amakhono okubala nokwazi ukubona amaphethini. • Ukuthuthuka kolwazi lwezinombolo lusiza abafundi ukuba bazi izakhiwo zezinombolo kanye namasu angabasiza ukuthuthukisa ukubala kalula. • Ukukwazi ukuxazulula izinkinga kusiza abafundi ukukwazi ukuxoxa nokubhala imicabango yabo besebenzisa imidwebo nezimpawu. • Abafundi bakhula ekuqondeni indlela yokusebenzisa izinombolo behlanganisa, besusa, behlukanisa nokuphindaphinda. • Abafundi bathuthukisa ulwazi ngamaqhezu ukuxazulula izinkinga zezibalo besebenzisa ukucazelana izinto eziphathekayo nokusebenzisa imidwebo. Izinkinga zezibalo abazenzayo aziveze imiphumela enezinombolo eziphelele kanye nezinsalela noma amaqhezu. Ukucazelana akumele kufake kuphela inani lamaqoqo kodwa kubhekwe ukuthi kungaki eqoqweni ngalinye. Kulesisigaba abafundi akufanele bafunde noma babhale izimpawu zamaqhezu.

ULWAZI LWEZIBALO		
INGXENYE YOLWAZI	**ULWAZI OLUVULELEKILE**	**ULWAZI OLUKHETHEKILE EMABANGENI APHANSI**
Amaphethini, ukuxhumana kanye ne-aljebhra	I-aljebhra ulimi lokuphenya nokuxhumana ngokwezibalo olungabuye lusetshenziswe ekufundweni kwemisebenzi kanye nobudlelwano phakathi kwezingxenyana zezibalo. Umgogodla wolwazi lwalengxenye yezibalo udinga ukuba umfundi akwazi ukusebenzisa amakhono ngendlela efanele ye-aljebhra. Iphinde ibheke: • ukuchaza amaphethini nobudlelwane ngokusebenzisa izimpawu zokuchaza , amagrafu namathebula; kanye • nokukhomba nokuhlaziya okuvamile nokushintsha kwamaphethini, nobudlelwano obusiza abafundi ukuthi baqagele babuye baxazulule izinkinga zezibalo.	KuleliBanga abafundi basebenza ngakho kokubili: • amaphethini ezinombolo (isib.ukubala weqa inombolo); kanye • nokusazibalo mdwebo (isib.izithombe) Abafundi kumele basebenzise izinto eziphathekayo, imdwebo kanye nezimpawu ukukopisha, ukwandisa, ukuchaza nokwakha amaphethini. Ukukopisha iphethini kusiza abafundi ukuba babone ukuthi iphethini yakheke kanjani. Ukuchaza iphethini kusiza abafundi ukuthuthukisa amakhono olimi. Ukugxila ekulandelaneni kwephethini kusiza ekuthuthukiseni amakhono okucaBanga nge-aljebhra. Amaphethini ezinombolo asiza ekuthuthukiseni ulwazi lwezinombolo, nokwakheka komqondo wezinombolo ukusebenza kanye nobudlelwano bazo. Okusazibalomdwebo kuhlanganisa imigqa, izimo, nezinto, kanye namaphethini akhona ezweni. Kulokhu okusazibalo mdwebo abafundi basebenzisa ulwazi lwabo lwezindawo nesimo.
Indawo nesimo (ijiyometri)	Ukufunda ngendawo nesimo kuthuthukisa ukuqonda nokuncoma amaphethini, ukucacisa, ukuphumelela nobuhle bendalo namasiko. Kugxila kulokhu: • Izakhiwo nobudlelwano bazo ; • Isimo, izikhundla kanye • Nezinguquko zezimo ezinhlangothimbili nezinto ezinhlangothintathu	KuleliBanga abafundi bagxila kwizinto ezinhlangothintathu (3-D), izimo ezinhlangothimbili (2-D), isikhundla nezinkomba. • Abafundi bahlola izinto ezinhlangothintathu nezimo ezinhlangothimbli ngokuhlela, nokuhlukanisa ngamaqoqo, ukuchaza nokuzisho ngamagama. • Abafundi badweba izimo bakhe ngezinto. • Abafundi babona babuye bachaze izimo nezinto ezisezindaweni zabo ezifana nezinto nezimo ezisebenza ezibalweni. • Abafundi bachaza isikhundla sezinto, ezabo, nezabanye besebenzisa amagama afanele. • Abafundi balandela babuye banike izinkomba.
Isilinganiso	Isilinganiso kugxile ekukhetheni nasekusebenziseni amayunithi ngendlela efanele, izinsizakukala kanye namafomula ukunika inani lobunjalo bezehlakalo,izimo, izinto kanye nendawo. Kuhambelana ncamashi nobuciko, nobuchwepheshe, nomnotho wokuqonda komfundi ngokwezinga lakhe. Lokhu kumsiza ukuba: • aqagele ngokuyikho, kanye • nokukwazi ukuqikelela isilinganiso ngokuyikho nokuthola imiphumela eyiyo.	KulamaBanga ulwazi lwabafundi lokulinganisa luthuthukiswa ngokusebenzisa izinto eziphathekayo nezimo, befunda izakhiwo zobude,zomthamo, zesisindo, zobungako bendawo kanye nesikhathi. • Abafundi balinganisa izakhiwo zezimo, nezinto besebenzisa amayunithi angalinganisiwe njengezandla, amagxathu, izitsha njll. • Abafundi baqhathanisa izinto besebenzisa amagama okuqhathanisa njengokuthi kude kuna/kufishane kuna, kuyasinda kuna kulula kuna njll. • Abafundi bethulwa kumayunithi ahleliwe njengama gramu, khilogramu; ilitha, imililitha; imitha, isentimitha. Imisebenzi ephathalene nesikhathi kufanele ihlelwe ngokwazi ukuthi abafundi banalo ulwazi ngokudlula kwesikhathi ngaphambi kokuba bafunde ngesikhathi.

ULWAZI LWEZIBALO		
INGXENYE YOLWAZI	**ULWAZI OLUVULELEKILE**	**ULWAZI OLUKHETHEKILE EMABANGENI APHANSI**
Ukuqokelelwa kolwazi lwezibalo	Ngesifundo sokuqokelelwa kolwazi, umfundi uthuthukisa amakhono oku: • qoqa • hlela • khangisa; • ukuhlaziya nokuhumusha ulwazi alunikiwe.	Okugxilwa kukho uma kufundiswa, kufundwa ngokuqokelelwa kolwazi emaBangeni aphansi kusekuhlelweni kwezinto nolwazi ngezindlela ezahlukene kube kuncike ezimpawini ezahlukene zezinto noma ulwazi. • Kulindeleke ukuthi abafundi bahumushe baphinde bakhe igrafu yezithombe nebar grafu ngokukodwa nokukodwa okuhambisanayo olwazini olunikiwe.

2.6 ISISINDO SEZINGXENYE ZOLWAZI

Isisindo sezingxenye zolwazi lwezibalo kunezinhloso ezimbili: eyokuqala isisindo seluleka ngobungako besikhathi esidingekayo ukufundisa ulwazi engxenyeni ngayinye ngokwanele; eyesibili isisindo seluleka ngokusabalalisa ulwazi ekuhlolweni. Isisindo sezingxenye zolwazi siyehlukahlukana ngokwamaBanga emaBangeni aphansi.

Ithebula 2.2 isisindo sezingxenye zolwazi emaBangeni aphansi

ISISINDO SEZINGXENYE ZOLWAZI			
Ingxenye yokuqukethwe	**IBanga 1**	**IBanga 2**	**IBanga 3**
Izinombolo, izimpawu kanye nobudlelwano bazo*	65%	60%	58%
Amaphethini, ukuxhumana kanye ne-aljebhra	10%	10%	10%
Indawo nesimo (Ijiyometri)	11%	13%	13%
Isilinganiso	9%	12%	14%
Ukuqokelelwa kolwazi lwezibalo	5%	5%	5%
	100%	**100%**	**100%**

* Ebangeni R-3, kusemqoka ukuthi izinombolo, ukusebenza kanye nobudlelwano bazo iyona esemqoka ohlelweni lwezibalo. Abafundi kufanele bakwazi ukusebenzisa izinombolo ngokukhululekile lapho sebeqede iBanga lesithathu. Inhloso ukuba abafundi bakwazi ukusebenzisa izinombolo ngokukhululeka nangokuzethemba. Ngalesizathu isikhathi sokufundisa izinombolo, ukusebenza kanye nobudlelwano bazo sesengeziwe. Umsebenzi omningi wamaphethini kufanele ubheke kakhulu ekwenzeni amaphethini ezinombolo ukuhlanganisa ulwazi lwabafundi lokusebenza ngezinombolo ngokuqhubekayo.

2.7 IZIBALO EMABANGENI APHANSI

Izibalo emaBangeni aphansi ziqinisekisa ukuxhumana kolwazi lwezibalo ebangeni – R, empilweni ngaphandle kwesikole nasemaBangeni aphakeme emfundo. Abafundi emaBangeni aphansi kumele bakhonjiswe ulwazi lwezibalo oluzobanika amathuba okwenza, ukukhuluma, nokubhala imcabango yabo.

Isikhathi esisetshenziswa ekufundiseni izibalo yisona esiveza umphumela wokuthuthuka olwazini nasemakhonweni ezibalo. Imisebenzi enikwa abafundi kumele kube ezobakhulisa olwazini lwezibalo njengoba kubekiwe kunqubomgomo hayi umsebenzi nje.

2.7.1 Imigomo ephakanyisiwe yokuphatha ikilasi

Sonke isikhathi esibekelwe ukufundisa izibalo ngelanga kufanele sithathwe njengesifundo esisodwa. Ngesikhathi sokufundwa kwezibalo kufanele kwenzeke lokhu okulandelayo:

- **Umsebenzi wekilasi**
  - Izibalo zekhanda
  - ukuhlanganisa ubukeze ulwazi olufundiwe
  - ukuphathwa kwekilasi (ukwabiwa komsebenzi ozimele,njll)
- **Ukufundisa abafundi ngamaqembu**
  - Ukubala
  - Ukuthuthukisa ulwazi lwezinombolo (ngokukhuluma nangokwenza)
  - Ukuxazulula izinkinga zezibalo (ngokukhuluma nangokwenza)
  - Umsebenzi wokubhala
  - Ukuthuthukisa amasu okubala (ngokukhuluma nangokwenza)
  - Amaphethini
  - Isimo neNdawo
  - Isilinganiso
  - ukuqokelelwa kolwazi lwezibalo
- **Umsebenzi abawenza ngokuzimela**

  Abafundi bazokwenza bese behlanganisa babukeze ulwazi lwezibalo abalufunde beyikilasi nasemaqenjini.

  Umsebenzi wekilasi: lapho kugxilwa khona kakhulu ezibalweni zekhanda, ukuhlanganiswa kolwazi nokwabiwa kwemisebenzi ezimele okungenani imizuzu engama 20 ngosuku ekuqaleni kwesifundo sezibalo.kulesikhathi uthisha uzophinda asebenze nekilasi lonke ukubona abhale (uma sekufanele)igama losuku,usuku, abafundi abakhona nabangekho, nesimo sezulu.izibalo zekhanda zifaka ukubala ngokushesha njengoku “inombolo engemuva/ngaphambili kwesi 8 ingu; 2 ngaphezulu/ngaphansi kwesi 8 ngu; 4+2; 5+2; 6+2” ngalesikhathi uthisha angahlanganisa ulwazi olubukhunyana.Futhi kubalulekile ukuthi uthisha anike ikilasi umsebenzi ojwayelekille wekilasi kanye nalowo msebenzi wokuzimela abazowenza ngokwabo ngesikhathi yena eqhubeka neqembu agxile kulo.

  *Izifundo ezigxile emaqenjini:*zisebenza kahle kakhulu uma uthisha ethatha abafundi abayiqembu elincane (aBangaba 8 kuya e 12)abasezingeni elifanayo lokusebenza basebenze naye eceleni ngesikhathi amanye amaqembu esebenza ngokuzimela umsebenzi osufundiwe.kuleliqembu elinothisha benza umsebenzi wokukhuluma nokwenza emisebenzini efana nokubala, ukuqagela, ukuthuthukisa ulwazi lwezinombolo nokuxazulula izinkinga, kanye nemisebenzi ethinta amaphethini, isimo nendawo, isilinganiso kanye nokuqokelelwa kolwazi lwezibalo, okufanele kube kulungiselelwe ngokucophelela.

  Ukuze ugcizelele ukufunda, umsebenzi wokubhala (incwadi yokusebenza, iphepha lokusebenzela, amakhadi okusebenza njll) kufanele ube yingxenye yomsebenzi weqembu uma kungenzeka. Abafundi kumele babe nezinto zokubhala (izincwadi zokusebenza ekilasini, njll)zokwenza imisebenzi yokuxazulula izinkinga. Ngesikhathi sokusebenza ngamaqembu kumele abafundi basebenzisane bagqugquzelwe ukuba “benze,

bakhulume, batshengise bese bebhala ulwazi nemicaBanga yabo yezibalo".

Othisha kufanele Bangababukeli phansi abafundi abathatha kancane;kufanele nabo banikwe imisebenzi ezobathuthukisa olwazini lwabo.Kulula ukuqondanisa izinga lomsebenzi othe thuthu nabafundi uma iqembu uthisha asebenza nalo lisezingeni elifanayo lokusebenza.Kodwa-ke,iqembu elixube amazinga ahlukene okusaebenza lingasebenza kahle uma lenza imisebenzi efana nokwakha, isilinganiso ukwakha amaphethini noma imisebenzi yokuhlela, noma imidlalo.

Imisebenzi yomfundi ngamunye: Ngesikhathi uthisha esebenza neqembu agxile kulo,abanye abafundi bazokwenza imisebenzi eminingi eyahlukene yezibalo egcizelela ihlanganise ulwazi namakhono asefundiwe ngesikhathi sokufunda emaqenjini nothisha.Lemisebenzi yokuzimela kufanele ihlelwe ngokwehlukana kwamazinga abafundi abakuwo.Imisebenzi yokuzimela ingafaka:

- Incwadi yokusebenzela;
- Amaphepha/amakhadi okusebenzela asemazingeni ahlukene uma bebala, besebenza ngezinombolo, bexazulula izinkinga zezibalo ezilula ezisesimweni esejwayelekile(izinkinga zezibalo zamagama), njll;
- Imidlalo yezibalo njenge Ludo,amadomino, amaphazili;kanye
- Imisebenzi efaka ukwakha, ukuhlela, ukwakha amaphethini noma isilinganiso.

Isikhathi sezibalo kufanele silekelele abafundi abanezinkinga ekufundeni kwabo,imisebenzi yokwandisa ulwazi kulabo abafunda ngokushesha, imisebenzi yokuhlola,njll.

Imisebenzi yezifundo yokuzimela neyamaqembu kufanele ibhekwe (ngokwenziwayo, nokuxoxwayo),imakwe bese ibhekwa uthisha njengemsebenzi yokuhlola ehleliwe nengahleliwe.

Ukubhekisisa izimpendulo zabafundi (ngokukhuluma, ngokuxoxa, ngokwenza, ngokubhala) ezimweni zokufunda nokufundisa kusiza uthisha ukuba enze ukuhlola okuqhubekayo,ukubheka inqubekela phambili yabafundi nokuhlela nokulekelela okufanele abafundi abanezinkinga ekufundeni kwabo.

2.7.2 Abafundi abanezingqinamba ekufundeni izibalo

Kusemqoka ukuthi abafundi abanezingqinamba banikwe umsebenzi yokwenza befunda.Izibonelo zokwenza usebenzisa izinto eziphathekayo nemisebenzi yokwenza kufanele yenziwe isikhathi esithe xaxa kunabanye abafundi, uma siqhubekela emsebenzini ofuna ukucatshangwa ungaholela ekudidekeni nasekudikibaleni. La bafundi Bangadinga ukunikezwa isikhathi esingaphezulu soku;

- qedela imisebenzi yokuhlola;
- ukuthola amakhono okucaBanga (amaqhinga akhe)

Inani lemisebenzi okufanele iqedwe kufanele ihambisane nezinga lokufunda lomfundi ngaphandle kokwehlisa izinga lolwazi namakhono.

2.7.3 Izibalo zekhanda

Izibalo zekhanda zinendima enkulu kwinqubomgomo yezibalo. Amabhondi ezinombolo namathebula okuphindaphinda okufanele abafundi bawazi noma bawakhumbule ngokushesha abhalwe ohlwini lweBanga neBanga. Ngaphezulu kwalokho , izibalo zekhala zisetshenziswa kakhulu ukuthola uhla lwezinimbolo oluphezulu ngokusebenzisa ukubalweqe izinombolo nokwenza imisebenzi efana "nokwehla wenyuka isitbhisi sezinombolo",isib. Uthisha weBanga le 3 angabuza imibuzo exhumene "Qala ngo 796. Yenza kube kuningi ngokuyi 7.Yebo, kuwu 803. Yenza lokho kuke nga-

phansi ngoku 5. Yebo, kuwu 798. Yenza lokho kube ngaphezulu ngoku 10…ngaphezulu ngoku 2….ngokungaphezulu noku 90… ngokungaphansi ngiku 5…" njll. Lemisebenzi isiza abafundi ukwakha umugqa wezinombolo sakuhuba.

Ngakhoke izibalo zekhanda zingena kakhulu kukona kokubili ukubala nokuthuthuka kolwazi lwezinombolo ngokuxhumana ngezinombolo namaphethini, kungenzeka futhi ngokulinganisa nemisebenzi yokuqokelelwa kolwazi. Uma wenza izibalo zekhanda , uthisha akufanale aphoqe abafundi ukwenza izibalo zekhanda abangeke bakwazi ukuzikhona –izinto zokubhala noma zokubala kufanele zihlale zikhona lezo abafundi aBangazidinga.

2.8 IBANGA R

Indlela yokufunda izibalo eBangeni – R kufanele incike emigomeni yokuhlanganisa konke abakwenzayo nasekufundeni sakudlala. Uthisha kufanele akhuthale, njengomxhumanisi kunokuba umfundisi. Umxhumanisi wenza amathuba amaningi okufunda benganakile okwenzeka ngesikhathi benza imisebenzi eminingi yobuntwana njengokudlala ngokukhululeka ekhoneni labo lamaphupho noma esizindeni sokwakha amabhuloki,iimidlalo yesihlabathi namanzi elawulwa uthisha egxile olwazini lwezibalo njengokubala, ukuthuthukiswa kolwazi lwezinombolo, indawo nesimo, amaphethini, isikhathi nezinye imisebenzi ezingenelayo yezibalo. Umbala awusilo ulwazi lwezibalo ngokuzimele, kodwa lungasetshenziswa ekuthuthukisweni kokukhuliswa kolwazi lwezibalo emsebenzise efana nokuhlele, ukwenza amaqoqo nokuhlela ngendlela ethile.

Konke okufundwa eBangeni – R okufaka impilo yasekilasini nokufunda nokufundiswa, kufanele kubasize, kubakhulise kwizingxenye zonke zempilo. Ukuthuthukiswa kuyingxenye kokwenzeka ezibalweni okufaka nokuthuthuka ngokwengqondo (ukuxazulula izinkinga, ukucaBanga ngendlela ehlelekile), ukuthuthukiswa kolimi (ulimi lwezibalo) imicabango nemizwa kanye nokuthuthuka ngokwenhlalo. Konke lokhu kungathuthukiswa, ngezindaba, amaculo, imilolozelo, imidlalo Yeminwe neyamanzi, izinto zokudlala ezifundisayo okufaka kuzo imidlalo yamabhodi, yokwakha nokubona (isisindo, isikhathi, umthamo, isilinganiso, njll), imidlalo yemicabango, imidlalo yangaphandle" nemidlalo yasenkundleni". Izinhlobo eziningi zemidlalo zingafaka izingxenye zezibalo, isibonelo: ukukala ngesikhathi sokukhathi sokupheka noma ukubala ngesikhathi sokuthenga.

Ngamanye amagama ukufundwa kwezibalo zokuqala nolwazi oluhambisana nazo njengokufundisa okufanele, kuhambisana nemigomo elanselayo lapho khona abantwana bedlula kuwona womathathu amazinga okufunda, lawa:

- Ukusetshenziswa komzimba (ukufunda ulwazi ngomzimba nemizwa);
- ukusetshenziswa kwezinsiza kufunda eziphathekayo (3-D, ukusetshenziswa kwezinhlobo ezahlukene zezinto njengamabhuloki, izivalo zamabhodlela, izinti zokubala nezinye izinto ezibazungezile); kanye
- Ukusetshensizwa komfanekiso osephepheni (imidwebo njengezithombe, amakhadi okuqondanisa njll)

Onyakeni weBanga R uhlelo lwesikhathi lubizwa ngokuthi uhlelo losuku (bheka umbhalo 1)lwakhiwe izinhlaka ezintathu ezibizwa:

- Imisebenzi eholwa uthisha;
- Imisebenzi yansukuzonke;kanye
- Imisebenzi esungulwa abafundi noma imidlalo ekhululekile.

Ukugcizelela kukona konke kufanele kube sekusebenziseni lezi zingxenye zohlelo losuku ukuthuthukisa ukufunda

UMBHALO 1: UHLELO LWANSUKU ZONKE IBANGA R
(UKUSUKA ± 7:30 – 13:00)

UKUFIKA NEMIDLALO EKHULULEKILE

Imizuzu: 36
- Ukubingelela Izindaba
  Ishadi lesimo sezulu Iregista
- UMSEBENZI OHOLWA UTHISHA
  Izibalo; Ulimi; Amakhono Empilo

Izibalo
Ulimi, Amakhono empilo

Imizuzu: 50
- UMSEBENZI WAMAKHONO (nsukuzonke: OKUMQOKA oku-1 kanye 2/3 imisebenzana yokulekelela
- UKUDLALA OKUKHULULEKILE
- UKUHLANZWA KWANGAPHAKATHI

- Imidlalo yokuzenzisa
- Ukulingisa
- Ukudlala ngokwakha
- Amabhuloki
- ukufunda
- Amathoyisi
- Imidlalo ecabangisayo
- Iphazeli
- Ikhona lezincwadi
- Isikhathi sokuthula
- Indawo enokuthula

Imizuzu: 30
- ISIKHATHI SOKUZIKHULULA ULimi, Izibalo, Amakhono Empilo

Imizuzu: 10
- UMSEBENZI OHOLWA UTHISHA Izibalo; Ulimi; Amakhono Empilo

Imizuzu: 20
- ISIKHATHI SOKUDLA Ulimi, Izibalo, Amakhono Empilo

Imizuzu: 60
- Imidlalu ekhululekile ngaphandle nokuqoqa

- Umdlalo wamanzi
- Umdlalo wesihlabathi
- Ukulingisa
- Umdanso
- Imijikelo/ozwingi
- Amathoyizi anamasondo
- Amathoyizi okufundisa
- Amathayi
- Ukunyakaziswa komzimba
- Imidlalo

Imizuzu: 10
- Isikhathi sokuzikhulula
  Izibalo, Ulimi, Amakhono Empilo

Imizuzu: 30
- UMSEBENZI OHOLWA UTHISH
  Izibalo, Ulimi, Amakhono Empilo

Imizuzu: 30
- INDABA nsuku zonke

Isikhathi sokuphumula/esokuthula kanye nosokuhamba

IZIBALO
- Imisebenzi ehlelwe nge-(CAPS) yezibalo
- Imisebenzi yomculo namaculo
- Imisebenzi emayelana nokucaBanga
- Imilolozelo enokubala
- Ingxoxo ngezihlokwana
- Ubuciko bokuhlola
- Ukudlala ngokukhululeka
- Inqubo

ULIMI
- Imisebenzi ngokwe nqutahlelo (ulimi lwasekhaya)
- Izindaba
- Ukulingisa
- Izincwadi / izithombe
- Ukufunda ngezithombe
- Ukuxoxa ngezithombe
- Imisebenzi emayelana nokucaBanga
- Iphosta yabazali
- Incwadi yabazali
- Izindaba
- Imilolozelo nezinkondlo
- Okuqoshiwe
- Ukuxoxa ngezihlokwana
- Imidlalo yokunyakazisa imizimba
- Inqubo
- Imidlao ekhululekile
- Ukudlala ngokukhululeka

AMAKHONO EMPILO
- Imisebenzi ehlelwe ngokwe-caps (amakhono empilo)
- Imidlalo yokunyakazisa umzimba
- Ukucula namaculo
- Imilolozelo nezinkondlo
- Ingxoxo ngezihlokwana
- Izinsuku zokuzalwa
- Inqubo
- Ukudlala ngokukhululeka

izibalo zokuqala ngokuthokozisayo nokwenzeka kungalindelekile esimweni esejwayelekile. Isibonelo: ukufundwa kwezibalo ezilawulwa uthisha ngesikhathi seringi. Amaringi amaningi anganikwa isikhathi sokugxila ezibalweni. Iringi yasekuseni ngesikhathi sokubingelela nokubizwa kwamagama kunikeza amathuba okudlala ngezinombolo, njengokubala.Amanye amaringi, njengeringi yezibalo , amaringi emicabango, eminyakazo, umculo nobuchwepheshe zingagxila ekunikezeni izibalo.

Imisebenzi yokuzenzela ingagcizelela izibalo, kusetshenziswa izimo ezisazibalo mdwebo ezifana njengezindilinga, nezikwele ukwenza ikholaji noma ukwakha iphethini yokufaka isithombe. Ishadi lesimo sezulu, ikhalenda neringi yezinsuku zokuzalwa nacho kunika amathuba okuvaza ulwazi lwezibalo.Ulwazi lukathisha nokuzinikela olungenyusa izinga lokufunda.

- *Okwenziwa njalo,* Lapho abafundi befunda ngokwenza, njengesikhathi sokudla, ukufika, ukugoduka/ukuya ekhaya, nokuya endlini encane, kunganikwa ukugxilwa ezibalweni. Abantwana abagqoke okubomvu, isibonelo, baya endlini encane kuqala (umbala nenombolo esho isikhundla), umntwana ngamunye uthola ipuleti nesinkwa (okukodwa nokukodwa okuqondanayo), UThandi angathanda isinkwa sesibili, uSipho akasithandi esesibili. Lokhu kulekelela ekuboneni nasekufundiseni , Ngamanye amazwi kuba umxhumanisi wokufunda.
- Ngesikhathi *sokudlala ngokukhululekile* uthisha angathuthukisa ulwazi lwezibalo zokuqala ngokuhlela kahle indawo yokudlala ngokukhululekile.Ukudlala okukhululekile okuphandle okunjengokugibela isitebhisi esenziwe ngezingodo kungathuthukisa ulwazi lolimi lwezibalo olufana nophezulu/phansi, ngenhla/ ngenzansi, ukushesha / nokuhamba kancane, njll. Umdlalo wamanzi nesihlabathi kungathuthukisa ukuqonda ulwazi njenge isisindo, umthamo nokumumethwe. Yonke lemisebenzi izothuthukisa amakhono okusebenza kwengqondo, okuholela ekutholeni ukufunda okuhlelekile kolimi nezibalo. Izibonelo zalamakhono:
    - ukuthuthukiswa kolwazi lokuqonda isikhundla sakhe nendawo isib. Ngemuva, ngaphambili, ngaphansi noma eceleleni kwento (lokhu kunga xhumana nesikhundla senombolo ezibalweni); kanye
    - ukuqonda izinkomba kanye nezinhlangothi (lokhu kungaxhumana nezinombolo nokwakheka kwezinhlamvu, kanye nokufunda kusukela kwesokudla kuya kwesobunxele)

Ukwenza okuchazwe ngenhla kuchaza indlela yokusebenza kweBanga -R ekuxazululeni izinkinga ekucaBangani okuhlelekile, kanye nemfundo yobuzwe egxile ekubambisaneni nasekuxoxisaneni. Ngokusebenzisa izikhathi zokufundisa uthisha angagqugquzela abantwana ukubheka izinqumo abazenzayo nokuqagela okungase kwenzeke, isib. Uma bebuka isitsha samanzi okudlala asetshenziswe emdlalweni wamanzi singamumatha amanzi amningi ukunanoma isiphi esinye isitsha.

Ngokwenza izincomo ezilekelelayo nokumenza umntwana ukuba acabange ngezinye izindlela zokuxazulula izinkinga, uthisha angagqugquzela abantwana ukuba bacabange kabanzi ngalento nokuthola izizathu ezifanele zezinqumo ezifanele. Ngalendlela akuzona kuphela izibalo ezithuthukayo kodwa ukuthuthuka komntwana ngokuphelele nezizinda ezisekele amaCAPS ziyasebenza.

Ukuhlolwa eBangeni – R kumele kungabi okuhlelekile nabafundi Bangakuzweli ukuhlolwa. Ngakho – ke akukho ukuhlola eBangeni – R. Umsebenzi ngamunye kufanele ulungiselelwe kahle ukuze kuthuthukiswe amakhono.

Ukuhlola eBangeni – R kwenzeka ngenkathi uthisha ebabuka benza bese ebhala phansi akubonile ngokwenza komfundi, kumele akwenze ngokusebenzisa uhlu lwezinto azibhekayo. Ngokuqhubeka konyaka uthisha uzokwakha isithombe esiphelele somntwana, esiveza lokho akwazi ukukwenza nangakwazi ukukwenza. Lokhu kunika ithuba lokuthi lokhu angakwazi ukukwenza kubhekisiswe nalokho akwazi ukukwenza kuthuthukiswe.

Ikilasi leBanga – R elihlelwe ngendlela yokubheka phambili, elilandela imigomo yokufunda ngendlela engaguquki

“nenemigomo emile” kufanele ligwenywe, njengoba ingavumeli ukutholakala kolwazi lwezibalo emntwaneni we-Banga –R. IBanga –R akufanele libe ikilasi elibukeka njengeleBanga-1. Linezinto zalo ezehlukile ezincike ekutheni abantwana baleliBanga bazibona kanjani izinto emhlabeni wobuntwana bebebethola nolwazi, amakhono, nezim-fundiso ezizobavumela ukwenyusa amathuba atholakala eminyakeni yokufunda okuhlelekile.

2.9 IZINSIZAKUFUNDISA EZINCONYIWE KUMABANGA APHANSI EKILASINI LEZIBALO

- Izinto zokubala
- Idayisi elikhulu
- Ibhodi lezinombolo elikhulu
- Ishadi lobude
- Igridi enkulu tezinombolo esukela 1-100 nesuka ku 101-200 (amashadi-100)
- Imigqa yezinombolo ehlukene (ovundlile nosuka phezulu uya phansi)
- Amafuladi khadi
- Imali yokudlala-ewuhlweza nengamaphepha
- Ikhalenda yalowo nyaka
- Iwashi elikhulu lezinti lasodongeni
- Isilinganiso sokuzimelela
- Amabhuloki okwakha
- Ubumba lokudlala
- Izinhlobo ezahlukene zamabhokisi ezinezimo nobungako obungafani ezitholakala emakhaya
- Amabhodlela ayiplastiki anhlobonhlobo nezitsha zokuchaza nokuqhathanisa okumemethwe
- Izibonelo ezinhle zokuyindilinga (Ibhola), iprizimu ewunxande (ibhokisi), ikhiyubhu, ikhoni, iphiramadi nesilinda.uthisha angazenzela lezinto ngokwakhe.
- Izikwele ezingamaplasitiki noma ezingamakhadibhodi, onxande abahlukene, izindilinga, onxantathu abahlukene abawubungakho obuhlukene
- Imidlalo yezibalo, isib uLudo, Izinyoka nezitebhisi, amaphazili, amadomino, aTangrams njll.
- Okudingeka ebangeni R no 1
  - Izindawo zemidlalo yamanzi nesihlabathi
  - Izinto zokugibela, ezokuzimelela, ezokujikela nezokweqa
  - Isitolo sokudlala esinezinto zokuthengwa ngemali yokudlala
  - Izinhlobo zemidlalo ehlukene njengokuthi ‘yini esesikweleni?
  - Amabhuloki

ISIGABA SESI – 3: UKUCACISA OKUQUKETHWE NOKUQONDWE NGQO

3.1 ISINGENISO

Emfundweni yamazinga aphansi kunezingxenye ezinhlanu zolwazi lwezibalo:

- Izinombolo, izimpawu kanye nobudlelwano bazo
- Amaphethini, ukuxhumana kanye ne-Aljebhra
- Indawo nesimo (Ijiyometri)
- Isilinganiso
- Ukuqokelelwa kolwazi lwezibalo

Ezibalweni ingxenye ngayinye yolwazi yehlukaniswe ngezihlok , njenge ndawo nesimo emaBangeni aphansi esinye isihloko singe zimo ezinhlangothi mbili.Isihloko ngasinye siluveza kahle ulwazi namakhono. Ingxenye yesi-3 kumaBanga aphansi kumaCAPS ezibalo iveza iphinde icacise ngolwazi oludingekayo.

3.2 OKUQUKETHWE OKUQONDWE NGQO OKUKHOMBISA INQUBEKELA PHAMBILI

Ithebula lolwazi oluqukethwe emaBangeni aphansi lukhombisa ngqo inqubekela phambili yolwazi namakhono kusuka eBangeni R kuya eBangeni 3. Ithebula leBanga likhombisa inqubekela phambili yolwazi namakhono kuwona omane amathemu onyaka.

Kwezinye izihloko ulwazi namakhono kuyafana kwamanye amaBanga amabili noma amathathu alandelanayo. Incazelo yolwazi inika inqubomgomo emayelana nokuthi inqubekela phambili izohamba kanjani kulamaBanga. Incazelo enemininingwane yolwazi kufanele ifundwe ngokuhlanganyela nencazelo yolwazi.

Ulwazi jikelele emaBangeni aphansi lukhombisa ingqubekela phambili yengxenye yolwazi; izinombolo, ukusebenza kanye nobudlelwano bazo, amaphethini, imisebenzi kanye ne-aljibhra, indawo nesimo, isilinganiso, ukuqokelelwa kolwazi lwezibalo kumaBanga aphansi kusetshenziswa lelithebula elilandelayo:

ULWAZI JIKELELE EMABANGENI APHANSI

1. IZINOMBOLO, IZIMPAWU KANYE NOBUDLELWANO BAZO

INQUBEKELAPHAMBILI KWIZINOMBOLO, UKUSEBENZA KANYE NOBUDLELWANO

- Inqubekela phambili ebalulekile kwizinombolo, ukusebenza kanye nobudlelwano yenzeka ngezindlela ezintathu:
  - Uhlelo lwezinombolo luyakhula
  - Ukwethulwa kwezinhlobo ezahlukahlukene zezinombolo
  - Ukushintsha kwamasu okubala
- Ngesikhathi uhlelo lokuthuthukisa izinombolo lukhula kuze kufinyelele ebangeni le – 3, kulindeleke ukuthi abafundi bathuthuke kangcono kumasu okubala.
- Izinkinga ezisesimweni esejwayelekile kumele zithathe uhla lwezinombolo zeBanga kanye nokubala kwabafundi okusezingeni elifanele.

ULWAZI	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
UKUTHUTHUKISWA KOLWAZI LWEZINOMBOLO: Ukubala kusetshenziswa izinombolo eziphelele				
1.1 **Bala izinto**	**Bala izinto eziphathekayo** Qagela bese ubala izinto okungenani eziyi – 10 ngokuyikho nsukuzonke.	**Bala izinto eziphathekayo** Qagela bese ubala izinto okungenani ezingama – 50 ngokuyikho nsukuzonke. Gqugquzela ukubala ngamaqoqo.	**Bala izinto eziphathekayo** Qagela bese ubala izinto okungenani ezingama – 200 ngokuyikho nsukuzonke. Gqugquzela ukubala ngamaqoqo.	**Bala izinto eziphathekayo** Qagela bese ubala izinto okungenani ezingama – 1000 ngokuyikho nsukuzonke. Gqugquzela ukubala ngamaqoqo.
1.2 **Bala uye phambili nasemuva**	Bala ukusuka phambili uye emuva ngakunye kusukela koku 1 – 10; Sebenzisa imilolozelo efaka izinombolo kanye namaculo	Bala uya phambili ubuye uye emumva ngakunye kusukela kunoma iyiphi inombolo phakathi kuka 0 – 100; **Bala uye phambili:** • Bala ngama -10 phakathi kuka - 0 kuya e – 100 • Bala ngokuyisi – 5 phakathi kuka -0 kuya e – 100 • Bala ngoku -2 phakathi kuka -0 kuya e – 100	Bala uye phambili ubuye uye emumva: • Ngakunye kusukela kunoma iyiphi inombolo phakathi kuka 0-kuya e 200 • Bala ngama – 10 kusukela kunoma iyiphi inombolo phakathi kuka -0 kuya e – 200 • Bala ngokuyisi – 5 kusukela kunoma iyiphi inombolo phakathi kuka – 0 kuya e – 200 • Bala ngaku – 2 kusukela kunoma iyiphi inombolo phakathi kuka 0-kuya e 200 • Bala ngaku – 3 kusukela kunoma iyiphi inombolo phakathi kuka – 0 kuya e – 200 • Bala ngaku – 4 kusukela kunoma iyiphi inombolo phakathi kuka – 0 kuya e – 200	Bala uye phambili ubuye uye emumva: • Ngakunye kusukela kunoma iyiphi inombolo phakathi kuka 0-kuya e 1000 • Bala ngama – 10 kusukela kunoma iyiphi inombolo phakathi kuka -0 kuya e – 1000 • Bala ngokuyisi – 5 kusukela kunoma iyiphi inombolo phakathi kuka – 0 kuya e – 1000 • Bala ngaku – 2 kusukela kunoma iyiphi inombolo phakathi kuka 0-kuya e-1000 • Bala ngaku – 3 kusukela kunoma iyiphi inombolo phakathi kuka – 0 kuya e – 1000 • Bala ngaku – 4 kusukela kunoma iyiphi inombolo phakathi kuka – 0 kuya e – 1000 • Ngama – 20, 25, 50, 100 kuze kufike okungenani e – 1000

ULWAZI	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
UKUTHUTHUKISWA KOLWAZI LWEZINOMBOLO: Okumele izinombolo eziphelele				
1.3 **Izimpawu namagama ezinombolo**	**Buka, ukhombe ubuye ufunde izinombolo** • Buka, ukhombe ubuye ufunde uphawu lwezinombolo kusukela koku – 1 kuya e – 10. • Buka, ukhombe ubuye ufunde amagama ezinombolo kusukela koku – 1 kuya e – 10	**Buka, ukhombe ubuye ufunde izimpawu zezinombolo** • Buka, ukhombe ubuye ufunde uphawu lwezinombolo kusukela koku – 1 kuya e – 100. • Bhala izimpawu zezinombolo kusuka ko -1 kuya ema - 20 • Buka, ukhombe ubuye ufunde amagama ezinombolo kusukela koku – 1 kuya e – 10. • Bhala amagama ezinombolo kusukela koku – 1 kuya e - 10	**Buka, ukhombe ubuye ufunde izinombol** • Buka, ukhombe ubuye ufunde uphawu lwezinombolo kusukela ku – 0 kuya e – 200. • Bhala izimpawu zezinombolo kusuka ko -1 kuya ema - 200 • Buka, ukhombe ubuye ufunde amagama ezinombolo kusukela ku – 0 kuya e – 100. • Bhala amagama ezinombolo kusukela ku – 0 kuya e - 100	**Buka, ukhombe ubuye ufunde izinombolo** • Buka, ukhombe ubuye ufunde uphawu lwezinombolo kusukela ku – 0 kuya e – 1 000. • Bhala izimpawu zezinombolo kusuka ko -1 kuya ema – 1 000 • Buka, ukhombe ubuye ufunde amagama ezinombolo kusukela ku – 0 kuya e – 1 000. • Bhala amagama ezinombolo kusukela ku – 0 kuya e – 1 000
• UKUTHUTHUKISWA KOLWAZI L WEZINOMBOLO: Chaza, qhathanisa uphinde uhlele izinombolo eziphelele				
1.4 **Chaza, qhathanisa ubuye uhlele izinombolo**	**Chaza, qhathanisa bese uhlela iqoqo lezinto kuyofika e-10.** • Chaza izinombolo eziphelele kuya e-10. • Qhathanisa lezizinto ezimbili ozinikiwe ngobukhulu, ngobuncan**e**, okuncane kunokunye, okukhulu kunokunye, okungaphezulu kunokunye, okungaphansi kunokunye, okulinganayo, okuningi kakhulu, okuncane kakhulu, okumbalwa kuze kufike e-10. • Hlela izinto eziqoqiwe ezingaphezu kokubili kusuka kokuncane kakhulu kuya kokukhulu kakhulu kuze kufike e-10.	**Chaza, qhathanisa bese uhlela izinto kuyofika e-20.** • Chaza uqhathanise iqoqo lezinto ngokuningi, okuncane, okulinganayo • Chaza uhlele iqoqo lezinto kusukela kokuningi kuya kokuncane, nokuncane kuya kokuningi		

ULWAZI	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
1.4 **Chaza, qhathanisa ubuye uhlele izinombolo**		**Chaza, qhathanisa bese uhlela izinombolo kuyofika e-20.** • Chaza bese uqhathanisa izinombolo eziphelele ngokubancane ukunenye,enkulu ukunenye kanye neningi ukunenye, nengaphansi ukunenye, nelinganayo • Chaza bese uhlela izinombolo kusukela kwencane kakhulu kuyofika kwenkulu kakhulu nakwenkulu kakhulu kuyofika kwencane kakhulu	**Chaza, uqhathanise ubuye uhlele izinombolo kuya ema – 99** • Chaza bese uqhathanisa izinombolo eziphelele kuze ufike ema – 99 usebenzisa okuncane kunokunye, okukhulu kunokunye, okungaphezulu kunokunye, okungaphansi kunokunye kanye nokulinganayo • Chaza bese uhlela izinombolo eziphelele kuyofika ema-99 kusukela kwencane kakhulu kuyofika kwenkulu kakhulu nakwenkulu kakhulu kuyofika kwencane kakhulu	**Chaza, uqhathanise ubuye uhlele izinombolo kuya ema – 999** • Chaza bese uqhathanisa izinombolo eziphelele kuze ufike ema – 999 usebenzisa okuncane kunokunye, okukhulu kunokunye, okungaphezulu kunokunye, okungaphansi kunokunye kanye nokulinganayo • Chaza bese uhlela izinombolo eziphelele kuze kufike ema - 999 kusukela kwezincane kakhulu kuya kwezinkulu kakhulu, ezinkulu kakhulu kuya kwezincane kakhulu.
	Sebenzisa izinombolo ezisho isikhundla ukukhombisa ukuhleleka, indawo noma isikhundla. • Thuthukusa ukuqaphela izinombolo ezisho isikhumdla isib. Okokuqala, okwesibili, okwesithathu kuyofika kwesithupha nokokugcina	**Sebenzisa izinombolo ezisho isikhundla ukukhombisa ukuhleleka, indawo noma isikhundla.** • Beka izinto emugqeni ngokulandelana kusukela kweyokuqala kuya kweyeshumi noma eyokuqala kuya kweyokugcina. Isib. Okokuqala, okwesibili, okwesithathu ... okweshumi	**Sebenzisa izinombolo ezisho isikhundla ukukhombisa ukuhleleka, indawo noma isikhundla.** • Beka izinto emugqeni ngokulandelana kusukela kweyokuqala kuya kweyamashumi amabili noma eyokuqala kuya kweyokugcina. Isib. Okokuqala, okwesibili, okwesithathu ... okwamashumi amabili	**Sebenzisa izinombolo ezisho isikhundla ukukhombisa ukuhleleka, indawo noma isikhundla.** • Sebenzisa, ufunde uphinde ubhale izinombolo ezimele isikhundla
UKUTHUTHUKISWA KOLWAZI LWEZINOMBOLO: Ubungako benani lenombolo				
1.5 **Ubungako benani lenombolo**		**Qala ukubona ubungako benani benombolo okungenani izinombolo ezingambili kufinyelela ema – 20** • Hlakaza izinombolo ezihamba ezingambili kubalwa ngamashumi nangokukodwa /imivo.	**Qala ukubona ubungako benani benombolo okungenani izinombolo ezingambili kufinyelela ema – 99** • Hlakaza izinombolo ezihamba ngambili kufinyelela ema – 99 kubalwa ngamashumi nangokukodwa /imivo. • Ukukhomba ubuye usho ubungako benombolo ngayinye.	**Qala ukubona ubungako benani benombolo okungenani izinombolo ezingantathu kufinyelela ema – 999** • Hlakaza izinombolo ezihamba ngantathu kufinyelela kuma – 999 bebala ngamakhulu, ngamashumi nangokukodwa/imivo. • Ukukhomba ubuye usho ubungako benombolo ngayinye

ULWAZI	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
XAZULULA IZINKINGA EZISESIMWENI ESEJWAYELEKILE				
1.6 **Amasu okuxazulula izinkinga**	Sebenzisa lamasu kuze kufike e - 10: • Izinsiza kufundisa eziphathekayo, Isib. Izinto zokubala • Isitebhisi sezinombolo esiphathekayo	Sebenzisa lamasu alandelayo ukuxazulula izinkinga nokuchaza izixazululo zezinkinga: • Izinsiza kufundisa eziphathekayo, isib. (izinto zokubala)Amatshe, ummbila, ubhontshisi njll. • Izithombe ukuze kudwetshwe izibalo zengxoxo • Ukwakha nokuhlakaza izinombolo • Ukuphinda kabili nokuhlukanisa kabili ngokulingana • Umugqa wezinombolo ohambisana nezinto eziphathekayo	Sebenzisa lamasu alandelayo ukuxazulula izinkinga nokuchaza izixazululo zezinkinga: • Imidwebo noma izinsiza kufundisa eziphathekayo, isib. (izinto zokubala) amatshe, ummbila, ubhontshisi • Ukwakha nokuhlakaza izinombolo • Ukuphinda kabili nokuhlukanisa kabili ngokulingana • Umugqa wezinombolo	Sebenzisa lamasu alandelayo ukuxazulula izinkinga nokuchaza izixazululo zezinkinga: • Ukwakha nokuhlakaza izinombolo • Ukuphinda kabili nokuhlukanisa kabili ngokulingana • Umugqa wezinombolo • Sondezela emashumini
1.7 **Ukuhlanganisa nokususa**	Xazulula izibalo zamagama (izibalo zengxoxo) ngokwesimo esejwayelekile ubuye uchaze isixazululo sakho esifaka ukuhlanganisa nokususa esinezimpendulo ezifinyelela e – 10.	Xazulula izibalo zamagama ngokwesimo esejwayelekile ubuye uchaze isixazululo sakho esifaka ukuhlanganisa nokususa esinezimpendulo ezifinyelela ema – 20.	Xazulula izibalo zamagama ngokwesimo esejwayelekile ubuye uchaze isixazululo sakho esifaka ukuhlanganisa nokususa esinezimpendulo ezifinyelela ema – 99	Xazulula izibalo zamagama ngokwesimo esejwayelekile ubuye uchaze isixazululo sakho ezinkingeni ezifaka ukuhlanganisa nokususa eziholela ezimpendulweni kufinyelela ema – 999
1.8 **Ukuhlanganisa okuphindaphin-dayo okuholela ekuphindaphin-deni**		Xazulula izibalo zamagama ngokwesimo esejwayelekile ubuye uchaze isixazululo sakho esifaka ukuhlanganisa okuphindaphindayo okunemiphumela efinyelela ema – 20.	Xazulula izibalo zamagama ngokwesimo esejwayelekile ubuye uchaze isixazululo sakho esifaka ukuhlanganisa okuphindaphindayo okunemiphumela efinyelela ema – 50	Xazulula izibalo zamagama ngokwesimo esejwayelekile ubuye uchaze isixazululo sakho esifaka ukuhlanganisa okuphindaphindayo okunemiphumela efinyelela e – 100
1.9 **Ukuhlela nga-maqoqo nokuh-lukaniselana okuholela ekwahl-ukaniseni**	Chaza uxazulule izisombululo ezimayelana nezibalo zamagama ngokwesimo esejwayelikle (izibalo zengxoxo) okufaka ukwahlukaniseana ngokulinganayo, ukuhlele ngamaqoqo izinombolo eziphelele kuze kufike e 10 kanye nezimpendulo ezingafaka izinsalela.	Xazulula uchaze izixazululo zezinkinga eziphathekayo kufaka ukwahlukaniselana ngokulinganayo, uhlele ngamaqoqo ezinombolo eziphelele kuze kufike ema – 20 kanye nezimpendulo ezingafaka izinsalela.	Xazulula uchaze izixazululo zezinkinga eziphathekayo kufaka ukwahlukaniselana ngokulinganayo, uhlele ngamaqoqo kufinyelela ema – 50 kanye nezimpendulo ezingafaka izinsalela.	Xazulula uchaze izixazululo zezinkinga eziphathekayo kufaka ukwahlukaniselana ngokulinganayo, uhlele ngamaqoqo kufinyelela e – 100 kanye nezimpendulo ezingafaka izinsalela.

ULWAZI	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
1.10 **Ukuhlukaniselana okuholela kumaqhezu**			Xazulula uchaze izixazulo ngezinkinga eziphathekayo ezifaka ukwabelana ngokulinganayo okuholela kwizixazululo ezifaka ingxenye eyodwa kokuphelele.	Xazulula uchaze izixazulo ngezinkinga eziphathekayo ezifaka ukwabelana ngokulinganayo okuholela kwizixazululi ezifaka ingxenye eyodwa kokuphelele kanye nezingxenye ezingaphezu kweyodwa kokuphelele.
1.11 **Imali**	Thuthukisa ulwazi lwemali esetshenziswa eNingizimu Afrika ewuhlweza nengamaphepha.	• Ukukwazi ukubona nokukhomba imali yaseNingizimu Afrika ewuhlweza (5c, 10c, 50c,R1, R2, R5), nengamaphepha (R10, R20) • Ukuxazululwa kwezinkinga zemali ezifaka isamba noshintshi kulemali – 20c, R20	• Ukuwazi ukubona nokukhomba imali yaseNingizimu Afrika ewuhlweza (5c, 10c, 50c,R1, R2, R5), nengamaphepha (R10, R20,R50) • Ukuxazululwa kwezinkinga zemali ezifaka isamba noshintshi kulemali – 90c, R99	• Ukuwazi ukubona nokukhomba yonke imali ewuhlweza nengamaphepha esetshenziswa eNingizimu Africa • Ukuxazululwa kwezinkinga zemali ezifaka isamba noshintshi owuhlweza nemali yamaphepha • Guqula imali ewuhlweza ibe amaphepha; eyamaphepha ibe uhlweza .
UKUBALA OKUKHULULEKILE				
1.12 **Amasu (izindlela noma amaqhinga)**		Sebenzisa lamasu alandelayo uma ubala: • Imidwebo noma izinsiza kufundisa eziphathekayo zokubala • Ukwakha nokuhlakaza izinombolo • Ukuphinda kabili nokuhlukanisa kabili ngokulingana • Umugqa wezinombolo ohambisana nezinto eziphathekayo.	Sebenzisa lamasu alandelayo uma ubala: • Imidwebo noma izinsiza kufundisa eziphathekayo zokubala • Ukwakha nokuhlakaza izinombolo • Ukuphinda kabili nokuhlukanisa kabili ngokulingana • Umugqa wezinombolo	Sebenzisa lamasu alandelayo uma ubala: • Ukwakha nokuhlakaza izinombolo • Ukuphinda kabili nokuhlukanisa kabili ngokulingana • Umugqa wezinombolo • Ukusondezela emashumini
1.13 **Ukuhlanganisa nokususa**	Xazulula ngomlomo izinkinga zokuhlukanisa nokuhlanganisa ezinezixazululo ezifinyelela e-10.	• Hlanganisa kuze kufike kuma – 20 • Susa ema – 20 • Sebenzisa izimpawu ezifanele (+, –, =, □) • Yenza uphindelela amabhondi kuze kufike e – 10	• Hlanganisa kuze kufike kuma – 99 • Susa ema – 99 • Sebenzisa izimpawu ezifanele (+, –, =, □) • Yenza uphindelela amabhondi kuze kufike e – 20	• Hlanganisa kuze kufike kuma – 999 • Susa ema – 999 • Sebenzisa izimpawu ezifanele (+, –, =, □) • Yenza uphindelela amabhondi kuze kufike ema – 30

ULWAZI	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
1.14 **Ukuhlanganisa ngokuphindelela okuholela ezibalweni zokuphindaphinda**		• Hlanganisa inombolo efanayo ngokuphindelela kufinyelela ema – 20 • Sebenzisa izimpawu ezifanele (+, =, □)	• phindaphinda izinombolo kusukela kweyodwa kuya kwezilishumi ngoku - 2,5,3 nangoku-4 kuze kufike ema – 50 • Sebenzisa izimpawu ezifanele (+, x, =, □)	• Phindaphinda noma iyiphi inombolo ngoku -2,3,4,5,10 kuze kufike e– 100 • Sebenzisa izimpawu ezifanele (x, □)
1.15 **Ukwahlukanisa**				• Hlukanisa izinombolo kufinyelela e - 100 ngalezi zinombolo: 2,3,4,5,10 • Sebenzisa izimpawu ezifanele (÷, =, □)
1.16 **Izibalo zekhanda**	**Ulwazi lwezinombolo: Uhla olufinyelela e-10** Umsebenzi ngamunye uqala ngezibalo zekhanda: • Bala izinto zansukuzonke • Bala uye phambili ubuye uye emumva • Ukubala ngezinombolo ezisho isikhundla • Shaya izandla kaningi/ kambalwa • Ikuphi ukushaya okuningi/ okuncane/okungaphezulu/ okumbalwa • Iyiphi inombolo eba ngaphambili/ ngemimva/ ephakathi	**Ulwazi lwezinombolo: uhla olufinyelela e – 20** • Shono inombolo engaphambi noma emuva kwenombolo enikiwe. • Hlela iqoqo olinikwe lezinombolo ezikhethiwe. • Qhathanisa izinombolo kufinyelela ema-20 usho ukuthi iyiphi enkulu noma encane ngokukodwa noma okubili.	**Ulwazi lwezinombolo: uhla olufinyelela e – 99** • Hlela iqoqo olinikwe lezinombolo ezikhethiwe. • Qhathanisa izinombolo kufinyelela ema-99 bese usho ukuthi iyiphi enkulu noma encane ngoku -1.2,3,4,5,10	**Ulwazi lwezinombolo: uhla olufinyelela e –1000** • Hlela iqoqo olinikwe lezinombolo ezikhethiwe. • Qhathanisa izinombolo kufinyelela ema-1000 usho ukuthi iyiphi enkulu noma encane ngoku -1.2,3,4,5,10
		Ukukhumbula okusheshayo: • Imigomo yokuhlanganisa nokususa ukufika e -10.	**Ukukhumbula okusheshayo:** • Imigomo yokuhlanganisa nokususa kufika ema-20 • Susa noma uhlanganise ubala ngokuyishumi kusukela ku-0 kuya e-100	**Ukukhumbula okusheshayo:** • Khumbula imigomo yokuhlanganisa nokususa kufika ema-20 • Susa noma uhlanganise ubala ngokuyishumi kusukela ku-0 kuya e-100 • Imigomo yikuphindaphinda usebenzisa: - Ithebula lokuphindaphinda ngokubili kufika ema - 20 - Ithebula lokuphindaphinda ngokuyi - 10 kufika e – 100

ULWAZI	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
1.16 **Izibalo zekhanda**		**Amaqhinga okubala:** Sebenzisa amaqhinga okuhlanganisa nokususa ngokuyikho: • Beka inombolo enkulu kuqala ukuze ubale uqhubeke noma ubala uya emumva. • Umugqa wezinombolo. • Ukuphinda kabili nokuhlukanisa kabili ngokulingana • Ukwakha nokuhlakaza izinombolo	**Amaqhinga okubala:** Sebenzisa amaqhinga okuhlanganisa nokususa ngokuyikho: • Beka inombolo enkulu kuqala ukuze ubale uqhubeke noma ubala uya emumva. • Umugqa wezinombolo. • Ukuphinda kabili nokuhlukanisa kabili ngokulingana • Ukwakha nokuhlakaza izinombolo • Sebenzisa ubudlelwano phakathi kokuhlanganisa nokususa.	• Imigomo yokuhlukanisa izinombolo: - Hlukanisa ngokubili kufinyelela ema – 20 - Hlukanisa ngokuyi – 10 kufinyelela e – 100 **Amaqhinga okubala:** Sebenzisa lamaqhinga alandelayo: • Beka inombolo enkulu kuqala ukuze ubale uqhubeke noma ubala uya emumva. • Umugqa wezinombolo. • Ukuphinda kabili nokuhlukanisa kabili ngokulingana • Ukwakha nokuhlakaza izinombolo • Sebenzisa ubudlelwano phakathi kokuhlanganisa nokususa. • Sebenzisa ubudlelwano phakathi kokuphindaphinda nokuhlukanisa.
1.17 **Amaqhezu**			• Sebenzisa bese usho ingxenye eyodwa kokuphelele kwizimo ezejwayelekile ufaka ohhafu, amakota, okukodwa kokuthathu nokukodwa kokuhlanu. • Ukukwazi ukubona amaqhezu emidwebweni • Bhala amaqhezu kahhafu o-1	• Sebenzisa bese usho ingxenye eyodwa kokuphelele kanye nezingxenye ezingaphezulu kweyodwa kokuphelele kwizimo ezejwayelekile kufaka ohhafu, amakota, okukodwa kokuyisishiyagalombili, okukodwa kokuthathu, okukodwa kokuhlanu, okukodwa kokuyisithupha. • Ukukwazi ukubona amaqhezu kwimidwebo • Ukukwazi ukubona ukuthi ohhafu ababili noma okuthathu kokuthathu kwenza okuphelele, nokuthi uhhafu owodwa kanye namakota amabili kuyalingana. • Bhala amaqhezu njengohhafu, nokubili kokuthathu (Isib. ½)

ULWAZI JIKELELE EMABANGENI APHANSI

2. AMAPHETHINI, UKUXHUMANAKANYE NE-ALJEBHRA

Inqubekela phambili kumaphethini, imisebenzi kanye ne-Aljebhra

- Kumaphethini, Imisebenzi kanye ne-Aljebhra, abafundi bathola amathuba oku:
  - qedela bese uqhubeke amaphethini lela ezahlukene; kanye
  - nokukhomba nokuchaza amaphethini.
- Ukuchaza amaphethini kwenza isisekelo kubafundi bamaBanga Aphakathi (Intermediate Phase) ukuchaza imithetho yamaphethini. Lokho kuphenduka kube ngokuhleliwe emsebenzini wama-aljebhra kumaBanga Aphezulu (Senior Phase).

IZIHLOKO	IBANGA- R	IBANGA-1	IBANGA-2	IBANGA-3
2.1 **Amaphethini asazibalomdwebo**	**Kopisha bese uqhubeka** Kopisha bese uqhubeka namaphethini alula usebenzisa izinto eziphathekayo nemidwebo (Isib: usebenzisa imibala nezimo).	**Kopisha, uqhubeke bese uchaza** Kopisha, uqhubeke bese uchaza • ngamagama • Amaphethini alula enziwe ngezinto eziphathekayo. • Amaphethini alula enziwe ngemidwebo yemigqa, izimo noma izinto **Ukwakha amaphethini akho** Akha amaphethini akho okusazibalo mdwebo • Ngezinto eziphathekayo • Ngokudweba imigqa, izimo noma izinto **Amaphethini asizungezile** Khomba, uchaze ngamagama ukopishe amaphethini okusazibalo mdwebo • emvelweni • kusuka empilweni yesimanje yansuku zonke, • kusuka emasikweni ethu ayigugu	**Kopisha, uqhubeke bese uchaza** Kopisha, uqhubeke bese uchaza • ngamagama • Amaphethini alula enziwe ngezinto eziphathekayo. • Amaphethini axube izinto eziningi enziwe ngemidwebo yemigqa, izimo noma izinto **Ukwakha nokuchaza amaphethini akho** • Ngezinto eziphathekayo • Ngokudweba imigqa, izimo noma izinto **Amaphethini asizungezile** Khomba, uchaza ngamagama ukopishe amaphethini okusazibalo mdwebo • emvelweni • kusuka empilweni yesimanje yansuku zonke. • kusuka emasikweni ethu ayigugu	**Kopisha, uqhubeke bese uchaza** Kopisha, uqhubeke bese uchaza • ngamagama • Amaphethini alula enziwe ngezinto eziphathekayo • Amaphethini axube izinto eziningi ezenziwe ngemidwebo yemigqa, izimo noma izinto **Ukwakha nokuchaza amaphethini akho** • Ngezinto eziphathekayo • Ngokudweba imigqa, izimo noma izinto **Amaphethini asizungezile** Khomba, uchaze ngamagama bese ukopisha amaphethini okusazibalo mdwebo • emvelweni • kusuka empilweni yesimanje yansuku zonke. • kusuka emasikweni ethu ayigugu
2.2 **Amaphethini ezinombolo**		**Kopisha, uqhubeke bese uchaza** Kopisha, uqhubeke bese uchaza ukulandelana okulula kwezinombolo okungenani kufike e - 100 **Ukwakha nokuchaza amaphethini akho**	**Kopisha, uqhubeke bese uchaza** Kopisha, uqhubeke bese uchaza ukulandelana okulula kwezinombolo okungenani kufike e - 200 **Ukwakha nokuchaza amaphethini akho**	**Kopisha, uqhubeke bese uchaza** Kopisha, uqhubeke bese uchaza ukulandelana okulula kwezinombolo okungenani kufike e - 999 **Ukwakha nokuchaza amaphethini akho**

ULWAZI JIKELELE EmaBangeni APHANSI

3. INDAWO NESIMO (IJIYOMETRI)

Inqubekela phambili yendawo nesimo

Ingqubekela phambili ebalulekile kwindawo nesimo yenzeka ngoku:

- ngokugxila ezakhiweni ezintsha nasezimpawini zezimo nezinto kumaBanga onke; kanye
- noukusuka ekufundeni ulimi lwesikhundla kanye nokuqondanisa ukubukeka okwahlukene kwezinto ezifanayo kuya ekufundeni nasekulandeleni izinkomba kumabalazwe angahlelekile.

IZIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
3.1 **Isikhundla, isimo nokubukeka kwento**	**Ulimi lwesikhundla** Chaza isikhundla sento eyodwa kwenye. isib: phezu kwe-, phambi kwe;ngemuva kwe-; kwesokunxele; kwesokudla; phezulu; phansi; eduze kwe-	**Ulimi lwesikhundla** Chaza isikhundla sento eyodwa kwenye. isib: phezu kwe-, phambi kwe;ngemuva kwe-; kwesokunxele; kwesokudla; phezulu; phansi; eduze kwe-	**Ulimi lwesikhundla** Chaza isikhundla sento eyodwa kwenye. isib: phezu kwe-, phambi kwe;ngemuva kwe-; kwesokunxele; kwesokudla; phezulu; phansi; eduze kwe-	
		Isikhundla nokubuka • Bona bese uqondanisa ukubukeka okwahlukene kwezinto ezifanayo zansuku zonke	**Isikhundla nokubuka** • Bona bese uqondanisa ukubukeka okwahlukene kwezinto ezifanayo zansuku zonke	**Isikhundla nokubuka** • Bona bese uqondanisa ukubukeka okwahlukene kwezinto ezifanayo zansuku zonke • Isho into yansuku zonke uma ikhonjiswe ngendlela engajwayelekile • Funda, humusha bese udweba ibalazwe elingahlelekile, noma ukubuka ngaphezulu iqoqo lezinto. • Thola izinto kubalazwe
	Isikhundla nezinkomba • Landela izinkomba ulokhu uhamba ekilasini	**Isikhundla nezinkomba** • Landela izinkomba ulokhu uhamba ekilasini • Landela imiyalelo ukubeka into eyodwa enobudlelwano nokunye isib: beka ipeni emuva kwebhokisi	**Isikhundla nezinkomba** • Landela izinkomba ulokhu uhamba ekilasini	**Isikhundla nezinkomba** • Landela izinkomba ulokhu uhamba ekilasini nasesikoleni. • Nika izinkomba zokulokhu uhamba ekilasini nasesikoleni. • Landela izinkomba ezisuka endaweni eyodwa kuya kwenye ebalazweni elingahlelekile.

IZIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
3.2 **Izinto ezinhlangothi ntathu (3-D)**	**Uhla lwezinto** Bona uphinde ubize izinto ezinhlangothi ntathu (3-D) ekilasini • Izinto ezisabhola • Izinto ezisabhokisi **Izimpawu zezinto** • Chaza, hlela bese uqhathanisa izinto ezinhlangothi ntathu (3-D) ngoku: • wobungako • imibala • izinto eziginqikayo • izinto ezishelelayo **Imisebenzi okugxilwa kuyo** • Sebenzisa izinto ezinhlangothi ntathu (3-D) njengamabhuloki okwakha, okusetshenziswa kabusha, njll ukwakha izinto ezakhiwe ngezinto ezahlukene. Isib: umbhoshongo, ibhuloho njll	**Uhla lwezinto** Bona uphinde ubize izinto ezinhlangothi ntathu (3-D) ekilasini nasezithombeni. • Izinto ezisabhola • (imbulunga) • Izinto ezisabhokisi • (iphrizimu) **Izimpawu zezinto** • Chaza, hlela bese uqhathanise izinto ezinhlangothi ntathu (3-D) ngoku: • wobungako • imibala • izinto eziginqikayo • izinto ezishelelayo **Imisebenzi okugxilwa kuyo** • Bheka futhi wakhe izinto ezinhlangothi ntathu (3-D) usebenzisa izinto eziphathekayo njengamabhuloki okwakha, okusetshenziswa kabusha, izinto zokwakha.	**Uhla lwezinto** Bona uphinde ubize izinto ezinhlangothi ntathu (3-D) ekilasini nasezithombeni. • Izinto ezisabhola • (imbulunga) • Izinto ezisabhokisi • (iphrizimu) • isilinda **Izimpawu zezinto** • Chaza, hlela bese uqhathanise izinto ezinhlangothi ntathu (3-D) ngoku: • wobungako • izinto eziginqikayo • izinto ezishelelayo **Imisebenzi okugxilwa kuyo** • Bheka futhi wakhe izinto ezinhlangothi ntathu (3-D) usebenzisa izinto eziphathekayo, izimo ezinhlangothi mbili, amabhuloki okwakha, okusetshenziswa kabusha, izinto zokwakha nezinto ezinhlangothi ntathu ezisazibalo mdwebo.	**Uhla lwezinto** Bona uphinde ubize izinto ezinhlangothi ntathu (3-D) ekilasini nasezithombeni. • Izinto ezisabhola • (imbulunga) • Izinto ezisabhokisi • (iphrizimu) • isilinda • iphiramidi • ikhoni **Izimpawu zezinto** • Chaza, hlela bese uqhathanise izinto ezinhlangothi ntathu (3-D) ngoku: • izimo ezinhlangothi mbili (2-D) ezenza ubuso bezinto ezinhlangothi ntathu • ingaphezulu lendawo endlalekile noma emagwingci **Imisebenzi okugxilwa kuyo** • Bheka futhi wakhe izinto ezinhlangothi ntathu (3-D) usebenzisa izinto eziphathekayo njengezimo ezinhlangothi mbili ezisikiwe, ubumba, izinti zokuvungula, izinti zokuphuza,nezinye izinto ezinhlangothi ntathu ezisazibalo mdwebo.

IZIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
3.3 **Izimo ezinhlangothi mbili (2-D)**	**Uhla lwezimo** • Bona bese usho izimo ezinhlangothi mbili (2-D) • indilinga • unxantathu • isikwele **Izimpawu zezimo** • Chaza, hlela bese uqhathanise izimo ezinhlangothi mbili (2-D) ngoko: • bungako • imibala • amacala aqondile • amacala ayindilinga	**Uhla lwezimo** Bona bese usho izimo ezinhlangothi mbili (2-D) • indilinga • unxantathu • isikwele **Izimpawu zezimo** • Chaza, hlela bese uqhathanise izimo ezinhlangothi mbili (2-D) ngoko: • bungako • imibala • amacala aqondile • amacala ayindilinga	**Uhla lwezimo** Bona bese usho izimo ezinhlangothi mbili (2-D) • indilinga • unxantathu • isikwele • unxande **Izimpawu zezimo** • Chaza, hlela uphinde uqhathanise izimo ezinhlangothi mbili (2-D) ngoko: • wobungako • isimo • amacala aqondile • amacala ayindilinga	**Uhla lwezimo** Bona bese usho izimo ezinhlangothi mbiliu (2-D) • indilinga • unxantathu • isikwele • unxande **Izimpawu zezimo** • Chaza, hlela uphinde uqhathanise izimo ezinhlangothi mbili (2-D) ngoko: • isimo • amacala aqondile • amacala ayindilinga **Dweba izimo** • izindilinga • onxantathu • izikwele • onxande
3.4 **Okufana nse nxazombili**	**Okufana nxazombili** • Ukubona ukuhlukana komzimba wakhe kabili izingxenye ezifana nse.	**Okufana nxazombili** • Ukubona ukuhlukana komzimba wakhe kabili izingxenye ezifana nse. • Bona uphinde udwebe umugqa ohlukanisa izimo ezinhlangothi mbili ezisazibalo mdwebo nalezo ezingezona ijiyometri.	**Okufana nxazombili** • Bona uphinde udwebe umugqa ohlukanisa izimo ezinhlangothi mbili ezisazibalo mdwebo nalezo ezingezona ijiyometri.	**Okufana nxazombili** • Bona uphinde udwebe umugqa ohlukanisa izimo ezinhlangothi mbili ezisazibalo mdwebo nalezo ezingezona ijiyometri. • Thola umugqa ohlukanisa izinto phakathi zilingane ngokugoqa iphepha phakathi nendawo lihlukane kabili.

ULWAZI JIKELELE EMABANGENI APHANSI 4. ISILINGANISO				
Ingqubekela phambili ekulinganiseni • Ingqubekela phambili ebalulekile ekulinganiseni kuwo wonke amaBanga yenzeka ngokwethulwa kwalokhu: - Izindlela ezintsha zokulinganisa; - Amathulusi amasha okulinganisa, kuqala emathulizini angahlelekile kuya kumathuluzi ahlelekile kumaBanga 2 no 3; - Izikali ezintsha zokulinganisa, ikakhulukazi kumaBanga 2 no 3, • Ukubala nokuxazululwa kwezinkinga zokulinganisa kumele kunakekelwe ukuthi kusetshenziswe izinombolo esezifundiwe.				
IZIHLOKO	**IBANGA R**	**IBANGA 1**	**IBANGA 2**	**IBANGA 3**
4.1 **Isikhathi**	**Ukudlula kwesikhathi** Ukuxoxa ngokudlula kwesikhathi • Kuxoxwa ngezinto ezenzeke emini nasebusuku • Abafundi balandelanisa izigameko ezenzeke emini • Abafundi bahlela izigameko ezenzeka njalo ezimpilweni zabo	**Ukudlula kwesikhathi** Ukuxoxa ngokudlula kwesikhathi • Hlela izigameko ezenzeka ezimpilweni zabo. • Qhathanisa ubude besikhathi usebenzisa ulimi isib. side kuna, sifushane kuna, siyashesha kuna, sihamba kancane kuna. • Hlela izigameko usebenzisa ulimi njengokuthi izolo, namuhla, kusasa.		

IZIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
4.1 **Isikhathi**		**Ukusho isikhathi** • Chaza ukuthi into yenzeka nini ngokusebenzisa ulimi isib ekuseni, ntambama, ebusuku, ngaphambi kwesikhathi, ngemuva kwesikhathi. • Shono bese ulandelanisa izinsuku zesonto nezinyanga zonyaka. • Faka izinsuku zokuzalwa ekhalendeni.	**Ukusho isikhathi** • Shono bese ulandelanisa izinsuku zesonto nezinyanga zonyaka. • Faka izinsuku zokuzalwa, imugubho yezenkolo, amaholidi, izigameko zomlando, izigameko zesikole ekhalendeni. • Isho isikhathi ngokwa mahora, isigamu sehora kanye nekota lehora. **Bala ubude besikhathi nokudlula kwesikhathi** • Sebenzisa ikhalenda ukubala nokuchaza ubude besikhathi: - Ngezinsuku, - Ngamasonto • Sebenzisa iwashi ukubala ubude besikhathi: - Ngamahora - Uhhafu wehora	**Ukusho isikhathi** • Funda izinsuku (umhlaka bani) ekhalendeni • Faka izinsuku zokuzalwa, imugubho yezenkolo, amaholidi, izigameko zomlando, izigameko zesikole ekhalendeni. • Isho isikhathi ngokwa - amahora - uhhafu wehora - ikota lehora - amaminithi usebenzisa iwashi lezinti nelezinombolo nezinye izinto zokukala isikhathi isib. umakhalekhukhwini **Bala ubude besikhathi nokudlula kwesikhathi** • Sebenzisa ikhalenda ukubala nokuchaza ubude besikhathi: - Ngezinsuku, - Ngamasonto - Ngezinyanga • Ukushintsha kusuka ezinsukwini kuya evikini • Ukushintsha kusuka emavikini kuya ezinyangeni • Sebenzisa iwashi ukubala ubude besikhathi: - ngamahora - ngohhafu wehora - ngekota lehora

IZIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
4.2 **Ubude**	**Ukukala okungahlelekile** • Qhathanisa bese uhlela ubude, ukuphakama noma ububanzi bezinto ezimbili noma ngaphezulu ngokuzibeka eduze kwenye. Sebenzisa ulimi ukukhuluma ngokuqhathanisa Isib. Okude kuna, okufushane kuna, okude kuna, okubanzi ngokuthe xaxa,	**Ukukala okungahlelekile** • Qhathanisa bese uhlela ubude, ukuphakama noma ububanzi bezinto ezimbili noma ngaphezulu ngokuzibeka eduze kwenye. Sebenzisa ulimi ukukhuluma ngokuqhathanisa Isib. Okude kuna, okufushane kuna, okude kuna, okubanzi ngokuthe xaxa, • Qagela, linganisa, qhathanisa, hlela bese ubhala phansi ubude usebenzisa ukukala okungenasilinganiso Isib. ngezandla, amagxathu, ubude bamapensela, nezinto zokubala • Chaza ubude bezinto ngokubala bese usho ubude ngokwezikali ezingahlelekile.	**Ukukala okungahlelekile** • Qagela, linganisa, qhathanisa, hlela bese ubhala phansi ubude usebenzisa ukukala okungenasilinganiso Isib. ngezandla, amagxathu, ubude bamapensela, nezinto zokubala • Chaza ubude bezinto ngokubala bese usho ubude ngokwezikali ezingahlelekile. **Ukwethulwa kokulinganisa ngokuhlelekile** • Qagela, linganisa, qhathanisa, hlela bese ubhala ubude usebenzisa amamitha (induku eyimitha noma intambo eyimitha) njengesikali esilinganisiwe sobude.	**Ukukala okungahlelekile** • Qagela, linganisa, qhathanisa, hlela bese ubhala phansi ubude usebenzisa ukukala okungenasilinganiso Isib. ngezandla, amagxathu, ubude bamapensela, nezinto zokubala • Chaza ubude bento ngokubala bese usho ukuthi kude kangakanani ngesikali esingahlelekile. **Ukwethulwa kokulinganisa ngokuhlelekile** • Qagela, linganisa, qhathanisa, hlela bese ubhala ubude usebenzisa amamitha (induku eyimitha noma intambo eyimitha) njengesikali esilinganisiwe sobude. • Qagela bese ulinganisa ubude ngamasentimitha usebenzisa irula (akudingekile ukuguqula amamitha abe amasntimitha)

IZIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
4.3 **Isisindo**	**Isilinganiso okungahlelekile** • Qhathanisa bese uhlela isisindo sezinto ezimbili noma ngaphezulu ngokuzizwa noma usebenzise isikali sokuzimelela. • Sebenzisa ulimi ukuqhathanisa, Isib. kulula, kuyesinda, kulula kuna, kusinda kune	**Isilinganiso okungahlelekile** • Qagela, linganisa, qhathanisa, hlela, bese ubhala isisindo usebenzise isikali sokuzimelela kanye nokukala okungenasilinganiso Isib. amabhulokisi, izitini. • Chaza isisindo sezinto ngokubala ukhombise isisindo ngokwe zikali ezingahlelekile. • Sebenzisa ulimi ukuqhathanisa, Isib. kulula, kuyesinda, kulula kuna, kusinda kune	**Isilinganiso okungahlelekile** • Qagela, linganisa, qhathanisa, hlela, bese ubhala isisindo usebenzise isikali sokuzimelela kanye nokukala okungenasilinganiso Isib. amabhulokisi, izitini. • Chaza isisindo sezinto ngokubala ukhombise isisindo ngokwe zikali ezingahlelekile • Sebenzisa ulimi ukuqhathanisa, Isib. kulula, kuyesinda, kulula kuna, kusinda kune **Ukwethulwa kokulinganisa okukuhlelekile** • Qhathanisa, hlela ubhale isisindo sezinto ezithengisayo ezinesisindo esikaliwe esingama khilogram Isib.2 amakhilogramu elayisi,1 ikhilogramu ka fulawa. • Linganisa isisindo sakho ngamakhilogramu usebenzisa isikali sasendlini yokugeza	**Isilinganiso okungahelekile** • Qagela,linganisa,qhathanisa,hlela ,bese ubhala isisindo usebenzise isikali sokuzimelela kanye nokukala okungenasilinganiso Isib. amablokisi,izitena • Chaza isisindo sezinto ngokubala ukhombise isisindo ngokwe zikali ezingahlelekile • Sebenzisa ulimi ukuqhathanisa, Isib. kulula, kuyesinda, kulula kune, kusinda kune **Ukwethulwa kokulinganisa okukuhlelekile** • Qhathanisa, uhlele bese ubhala isisindo sezimpahla ezipakishiwe sabhalwa: - ngamakhilogramu. isib 2 amakhilogramu wempuphu no 1 khilogramu washukela. - Amagramu isib 500g kasawoti • Linganisa isisindo sakho ngamakilogramu usebenzisa isikali sasendlini yokugeza.. Ayikho inguquko edingekayo phakathi kwamagramu namakhilogramu
4.4 **Umthamo / okumumethwe**	**Ukukala okungahlelekile** • Qhathanisa bese uhlela umthamo woketshezi olusezitsheni ezimbili ezibekwe ndawonye. Abafundi bazohlola ngokuthi bathele uketshezi esitsheni sesithathu. • Qhathanisa bese uhlela umthamo woketshezi olungamumathwa izitsha ezimbili uma zigcwele. • Sebenzisa ulimi uqhathanise Isb. okuningi kunokunye, okuncane kunokunye, okugcwele, okungekho lutho.	**Ukukala okungahlelekile** • Qhathanisa bese uhlele umthamo woketshezi olusezitsheni ezimbili ezibekwe ndawonye. Abafundi bazohlola ngokuthi bathele uketshezi esitsheni sesithathu. • Qhathanisa bese uhlela umthamo woketshezi olungamumathwa izitsha ezimbili uma zigcwele. • Sebenzisa ulimi ukuqhathanise Isib. okuningi kunokunye, okuncane kunokunye, okugcwele, okungekho lutho.	**Ukukala okungahlelekile**	**Ukukala okungahlelekile**

IZIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
4.4 **Umthamo / okumumethwe**		• Qagela, linganisa, qhathanisa, hlela bese ubhala umthamo wezitsha usebenzisa ukukala okungenasilinganiso Isib.izipuni kanye nezinkomishi. • Chaza umthamo wesitsha ngokubala bese usho ukuthi ugcwala ngezikali ezingaki ezingahlelekile Isib.ibhodlela lithatha umthamo wezinkomishi ezine.	• Qagela, linganisa, qhathanisa, hlela bese ubhala umthamo wezitsha (Isib.umthamo ongagcwalisa isitsha) usebenzisa ukukala okungenasilinganiso Isib. izipuni kanye nezinkomishi. • Chaza umthamo wesitsha ngokubala bese usho ukuthi ugcwala ngezikali ezingaki ezingahlelekile Isib.ibhodlela lithatha umthamo wezinkomishi ezine. **Ukuthulwa kokulinganisa okuhlelekile** • Qagela, linganisa, qhathanisa, uhlele bese ubhala umthamo wezinto ezikalwe ngamalitha. • Qhathanisa, hlela bese ubhalea umthamo wezinto ezithengisayo ezikaliwe ezingamalitha Isib.2 amalitha obisi, 1 ilitha lesiphuzo, 5 amalitha kapende.	• Qagela, linganisa, qhathanisa, hlela bese ubhala umthamo wezitsha (Isib.umthamo ongagcwalisa isitsha) usebenzisa ukukala okungenasilinganiso Isib. izipuni kanye nezinkomishi. • Chaza umthamo wesitsha ngokubala bese usho ukuthi ugcwala ngezikali ezingaki ezingahlelekile Isib.ibhodlela lithatha umthamo wezinkomishi ezine. **Ukuthulwa kokulinganisa okuhlelekile** • Qagela, linganisa, qhathanisa, uhlele bese ubhala umthamo wezinto ezikalwe ngamalitha, uhhafu welitha nekota yelitha. • Qhathanisa, hlela bese ubhala umthamo wezinto ezithengisayo ezikaliwe ezingamalitha isib 2 amalitha obibs, 1 ilitha lesiphuzo, 5 amalitha kapende noma ibhalwe ngamamililitha isib 500 amamililitha wobisi, 340mamililitha wesiphuzo, 750 amililitha kawoyela • Inkomishi yetiye ejwayelekile ingamamililitha angama 250. • Ithisipuni ejwayelekile ingamamililitha ama 5. (Ayikho inguquko edingekayo phakathi kwamamililitha namalitha)
4.5 **Ubude bengaphandle lento kanye nobubanzi bendawo**				**Ubude bengaphandle lento** Phenya iBanga lezimo ezinhlangothi mbili 2-D nezinto ezinhlangothintathu 3-D usebenzisa ukuqhathanisa ngqo noma isikali esingahlelekile. **Ububanzi bendawo** Phenya ububanzi bendawo ngokusebenzisa amathayela (aphansi / obondeni)

ULWAZI JIKELELE EMABANGENI APHANSI

5. UKUQOKELELWA KOLWAZI LWEZIBALO

Inqubekela phambili kokuqokelelwa kolwazi lwezibalo

- Inqubekela phambili ebalulekile ekuqokelelweni kolwazi lwezibalo kumaBanga ahlukene yenzeka ngoku:
  - Ukusuka ekusebenzeni ngezinto uye ekusebenzeni ngolwazi, futhi
  - Usebenza ngezindlela ezintsha zokukhombisa ulwazi lwezibalo.
- Abafundi kufanele basebenze ngolwazi lwezibalo oluphelele okungenani kanye ngonyaka – lokhu kufaka ukuqoqa kanye nokuhlela ulwazi, ukwethulwa kolwa, ukuhlaziya, ukuhumusha kanye nombiko wolwazi.
- Ezinye izingxenye zolwazi oluqokelelwe lungenzeka kweminye imisebenzi yezibalo.

IZIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
5.1 **Ukuqoqa nokuhlela izinto**	**Ukuqoqa nokuhlela izinto** Qoqa bese uhlela izinto eziphathekayo zansukuzonke	**Ukuqoqa nokuhlela izinto** Qoqa bese uhlela izinto eziphathekayo zansukuzonke		
5.2 **Okumele iqoqo lezinto eziphathekayo ezihlelekile**	**Beka okumele iqoqo lezinto eziphathekayo ezihlelekile .** Dweba isithombe sezinto eziqoqiwe	**Beka okumele iqoqo lezinto eziphathekayo ezihlelekile** Dweba isithombe sezinto eziqoqiwe		
5.3 **Ukuxoxa nokubika ngeqoqo lezinto eziphathekayo ezihlelekile**	**Xoxa ubike ngeqoqo lezinto eziphathekayo ezihlelekile** • Phendula imibuzo ngoku: - kuhlelwe kanjani okuqoqiwe - kudwetshwe kanjani okuqoqiwe	**Xoxa nubike ngeqoqo lezinto eziphathekayo ezihlelekile** • Nika izizathu ngokuthi okuqoqiwe kuhlelwe kanjani ; • Phendula imibuzo ngoku: - Zihlelwe kanjani izinto (indlela owenze ngayo) - Okuhleliwe kwaqoqwa kubukeka kanjani • Chaza okuqoqiwe / umdwebo • Chaza ukuthi okuqoqiwe kuhlelwe kanjani		

IZIHLOKO	IBANGA R	IBANGA 1	IBANGA 2	IBANGA 3
5.4 **Ukuqoqa bese uhlela ulwazi**		**Qoqa uphinde uhlele ulwazi lwezibalo** • Qoqa ulwazi ngekilasi noma isikole ukuze uphendule imibuzo ethulwa uthisha	**Qoqa uphinde uhlele ulwazi lwezibalo** • Qoqa ulwazi ngekilasi noma isikole ukuze uphendule imibuzo ethulwa uthisha	**Qoqa uphinde uhlele ulwazi** • Qoqa ulwazi ngekilasi noma isikole ukuze uphendule imibuzo ethulwa uthisha • Hlela ulwazi olwethulwe uthisha noma incwadi yomfundi noma yokusebenza • Hlela ulwazi lwezibalo kulokhu: - Uhla - amathalisi - amathebula
5.5 **Ukubeka okumele ulwazi**		**Ukubeka okumele ulwazi** • Beka okumele ulwazi ngokusebenzisa igrafu yezithombe • Sebenzisa igrafu yezithombe okukodwa nokukodwa okuhambisanayo.	**Ukubeka okumele ulwazi** • Beka okumele ulwazi ngokusebenzisa igrafu yezithombe • Sebenzisa igrafu yezithombe okukodwa nokukodwa okuhambisanayo.	**Ukubeka okumele ulwazi** • Beka okumele ulwazi: - Ngokwenza igrafu yezithombe (Sebenzisa igrafu yezithombe okukodwa nokukodwa okuhambisanayo) - amabhagrafu
5.6 **Ukuhlaziya nokuhumusha ulwazi**		**Ukuhlaziya nokuhumusha ulwazi** Phendula imibuzo ngolwazi kwigrafu yezithombe • Sebenzisa igrafu yezithombe okukodwa nokukodwa okuhambisanayo.	**Ukuhlaziya nokuhumusha ulwazi** Phendula imibuzo ngolwazi kwigrafu yezithombe • Sebenzisa igrafu yezithombe okukodwa nokukodwa okuhambisanayo.	**Ukuhlaziya nokuhumusha ulwazi** Phendula imibuzo ngokumele ulwazi ngo: • Ngokwenza igrafu yezithombe (Sebenzisa igrafu yezithombe okukodwa nokukodwa okuhambisanayo) • Bhagrafu

3.3 UKUCACISA OKUQUKETHWA

Kulengxenye yokucaciswa kolwazi, othisha banikezwa lokhu:

- Ulwazi jikelele lweThemu lwamaBanga R - 3;
- Iziphakamiso zokulandelana kwezihloko ngokwamathemu: akuzona zonke izingxenye zezihloko ezifundiswayo ithemu ngayinye; ezinye izingxenye zezinye izihloko kumele zifundiswe ngaphambili kwezinye izingxenye zalezo zihloko.
- Iziphakamiso zezikhathi ezibekelwe izihloko onyakeni. Njengoba ezinye izingxenye zolwazi zidinga isikhathi esiningi kezinye, ngakhoke ezinye izihloko zidinga isikhathi esiningi kunezinye; kanye
- NAmanothi Acacisayokanye nomhlahlandlela wokufundisa onezibonelo ezifanele.

Ingxenye ngayinye yolwazi ihlukaniswe ngezihloko. Zonke izingxenye zolwazi kufanele zifundiswe ngethemu. Ukuhleleka kwezihloko ngamathemu kunika umqondo wokusabalalisa nokubukeza izihloko kuwona wonke amathemu onyakeni. Akubalulekile ukufundisa zonke izihloko zendawo nesimo, isilinganiso kanye ukuqokelelwa kolwazi kuwo wonke amathemu. Kodwa ke akuqikelelwe ukuthi zonke izihloko ziyafundiswa ngonyaka.

Kwingxenye ye – 2 (isigamu 2.6) unikeziwe isisindo sezingxenye zolwazi. Uma kuhlanganiswa amahora anikeziwe onyakeni, ungakwazi ukubala isikhathi sokufundisa sengxenye ngayinye yolwazi.

Othisha Bangakhetha ukuhlela ulwazi balwabele isikhathi ngokwehlukile kunalokho okuphakanyisiwe kule sahluko. Othisha Bangashintsha isikhathi esiphakanyisiwe sesahluko kancane Kodwa ke, kufanele kuqashelwe isisindo esisondelene kanye namahora okufundisa izingxenye zolwazi lwezibalo emaBangeni aphansi.

- **Ebangeni R** izibalo zisemazingeni okuqala ngakhoke akumele zibe nezikhathi zokuzifundisa ezihleliwe. Uthisha weBanga R kufanele afake ukufundiswa kwezibalo emisebenzini yansuku zonke nakuba izikhathi uthisha kufanele abe nesikhathi lapho egxila khona emsebenzini yezibalo, ngaphandle kwalokho abafundi bangeke bathuthuke olwazini namakhono adingekayo ezibalweni.
- Izikhathi zamaBanga R – 3 zibekwe ngalendlela:
  - **Amahora ayisikhombisa kufanele asetshenziselwe izibalo ngesonto** (amasonto ayi -10 x 4 amathemu x 7 amahora = 280 amahora ngonyaka).
  - Isifundo ngasinye sezibalo kufanele **sibe yihora eli-1 namaminithi angama 24 ngosuku kumaBanga 1 – 3.**
  - Lokhu kusho ukuthi kunamathemu amane anamasonto ayi 10 anezifundo ezinhlanu ngesonto (uMsombuluko kuya koLwesihlanu).
  - Banike isonto lokuqala ethemini ukuthi bajwayele futhi babukeze umsebenzi abawenzile, njengoba abafundi bavame ukukhohlwa ulwazi abalufundile ngesikhathi samaholide babuye bakhohlwe inqubo abayejwayele yesikole. Banike isonto lokugcina ethemini ukuba babukeze ulwazi abalufundile. Lokhu kunika 8 x 4 x 5 = 160 izifundo.

3.4 ISIVININI NOKULANDELANISA OKUQUKETHWE

Amathebula alandelayo awamaBanga R – 3:

- Ukulandelana kwezihloko onyakeni (kukhombisa ukuhlelwa kwezihloko ngamathemu kanye nokuncoma ubude besikhathi isihlokweni ngasinye ingxenye yokuqukethwe)

- Ukulandelanisa kwezihloko onyakeni (kukhombisa ukuthi izihloko zifakwe kanjani ngamathemu nenqubekela phambili yilwazi namakhono ngamathemu)
- Amanothi Acacisayoisihloko ngasinye - amathebhula anika incazelo yolwazi nomhlahlandlela wokufundisa ngesihloko ngasinye ngokulandelana kwazo ngamathemu

Ukuhlelwa okuzofundiswa – Ukuhlelwa kwezihloko ngethemu

EmaBangeni aphansi isihloko sezinombolo yisona esisemqoka ekufundweni kwezibalo. Ezikhathini eziningi ezifundweni zezibalo ngesonto, ngethemu nangonyaka kugxilwa ekufundweni kwi - Izinombolo, Ukusebenza kanye Nobudlelwane bazo. Okungenani kathathu noma ngaphezulu ngesonto makugxilwe ezifundweni ze - Izinombolo, Ukusebenza kanye Nobudlelwane bazo. Isikhathi esisele asihlukaniselwe ezinye izingxenye zolwazi lwezibalo.

INdawo neSimo kanye nokuLinganisa kudinga kunikwe isikhathi esiningi kunokuQokelelwa koLwazi, kanye namaPhethini,Imisebenzi kanye ne Aljebhra. Amathebula alandelayo akhombisa ukuthi zingaki izifundo okufanele zenziwe kwingxenye ngayinye yolwazi nesihloko ebangeni ngalinye kumaPhethini, Imisebenzi kanye neAljebhra; Indawo neSimo; Isilinganiso kanye noKuqokelelwa koLwazi.

- IBanga R: Ukuhlelwa kwezingxenye zolwazi nezihloko zezifundo

Izibalo **eBangeni R zisezingeni loqala kolwazi lwezibalo**, ngakhoke isikhathi esiphakamisiwe sokufundisa sisetshenziselwa ukufundiswa kwezibalo ezihleliwe nalezo ezixubene nezinye izifundo ezingahlelelwe.Lokhu kwenzelwe ukukhombisa ukusebenzisa lonke ulwazi olumele lufundiswe. Imisebenzi yezibalo zokuqala ingaba ukubala inani lamapuleti nezinkomishi abazokusebenzisa, imidlalo yokubala abayidlala ngaphandle, imidlalo yasendlini njengama-domino namaphazili,njll. Uthisha kufanele ahlele imisebenzi, alungise izinsiza kufundisa kuye ngokwezidingo zabafundi.

Indawo neSimo iyingxenye esemqoka ekuthuthukisweni kokufundwa kwezibalo kubafundi abasebancane, okufanele isabalaliswe kwisonto lonke, lapho izingxenye ezithile ziholwa uthisha, kuthi amathuba amaningi okwakha, imidlalo yasesihlabathini nasemanzini yenziwe abafundi.

Isilinganiso kufanele kuhlanganiswe nemisebenzi yokubala, njengokuqagela nokubala uma kukalwa iBanga ngezandla, ngezinyawo namanyathelo.

Irejista yansukuzonke kanye neshadi lesimo sezulu kunikeza abafundi ithuba lokusebenza **ngokuqokelela ulwazi**.

Ithebula lesi- 3.1: ukwabiwa kwesikhathi sengxenye yolwazi ngalunye ngesonto

Ingxenye yokuqukethwe	Izihloko	Isikhathi Esiphakanyisiwe
Izinombolo Izimpawu kanye nobudlelwane bazo	Ukubala Ukubona izinombolo Ukukhomba nokuchaza izinombolo Ulwazi lwezinombolo Ukuxazulula izinkinga zezibalo	**120 imizuzu**
Amaphethini, Ukuxhumana kanye ne-Aljebhra	Ukukopisha, ukwandisa, ukwakha iphethini lakhe	**80 imizuzu**
Indawo neSimo (Ijiyometri)	Ukubona, ukukhomba nokusho izimo ezinhlangothi mbili/ izithombe Izibalomdwebo Ukwakha izinto ezinhlangothintathu ngokusebenzisa izinto eziphathekayo Ubudlelwane nendawo Izinkomba	**80 imizuzu**
Isilinganiso	Isikhathi Ubude Isisindo Umthamo	**80 imizuzu**
Ukuqokelelwa kolwazi	Qoqa, hlela, dweba, funda bese ubeka okumele ulwazi.	**60 imizuzu**
ISAMBA		**420 imizuzu** **7 amahora ngesonto**

IBanga 1: Ukwabiwa kwezingxenye zolwazi nezihloko ezifundweni zamaBanga loku-1 kuya kwele-3

Okungenani izifundo ezintathu (phakathi kwamahora ama - 4 kuya kwa $4\frac{1}{2}$) ngesonto azosetshenziswa ukufundisa **Izinombolo, izimpawu kanye nobudlelwane bazo** emaBangeni oku-1, 2 nele-3. Izifundo ezimbili ezisele (phakathi kwamahora $2\frac{1}{2}$ kuya kwa -3) ahlukaniselwa izihloko zezinye izinxenye zolwazi lwezibalo njengoba kunconyiwe nge-zansi.

Ithebula lesi- 3.2: Inani lezifundo eliphakanyisiwe lengxenye ngayinye yeBanga loku- 1

Ingxenye yokuqukethwe	Isihloko	Inani Lezifundo				
		Ithemu 1	Ithemu 2	Ithemu 3	Ithemu 4	Isamba
Izinombolo kanye nobudlelwane bazo	Zonke izihloko zezinombolo kanye nobudlelwane bazo	22	30	28	25	**105**
Amaphethini, Ukuxhumana kanye ne-Aljebhra	Amaphethini ezinombolo	3	3	3	3	**12**
	Amaphethini ayizibalomdwebo	1	1	1	1	**4**
Indawo neSimo (Ijiyometri)	Izimo ezinhlangothi mbili		3		3	**6**
	Izinto ezinhlangothi ntathu	3		2	1	**6**
	Isikhundla, isimo nokubukeka kwento	2			1	**3**
	Okufana nse nxazombili			1	1	**2**
Isilinganiso	Isikhathi	2				**2**
	Ubude	2		2		**4**
	Isisindo	2			2	**4**
	Umthamo / okumumethwe	1	2		1	**4**
Ukuqokelelwa kolwazi	Ukuqoqa, ukuhlela, ukubeka okumele ulwazi nokuhlaziya izinto	2	1			**3**
	Ulwazi oluphelele			3		**3**
	Izingxenye zolwazi oluphelele				2	**2**
Inani Lezifundo		**40**	**40**	**40**	**40**	**160**

Ithebula lesi- 3.3: Inani lezifundo eliphakanyisiwe lengxenye ngayinye yeBanga lesi- 2

Ingxenye yokuqukethwe	Isihloko	Inani Lezifundo				
		Ithemu 1	Ithemu 2	Ithemu 3	Ithemu 4	Isamba
Izinombolo kanye nobudlelwane bazo	Zonke izihloko zezinombolo kanye nobudlelwane bazo	24	25	24	26	99
Amaphethini, Ukuxhumanakanye ne-Aljebhra	Amaphethini ezinombolo	3	3	3	3	12
	Amaphethini ayizibalomdwebo	1	1	1	1	4
Indawo neSimo (Ijiyometri)	Izimo ezinhlangothi mbili		3		3	6
	Izinto ezinhlangothi ntathu	3		2	1	6
	Isikhundla, isimo nokubukeka kwento		2	1		3
	Okufana nse nxazombili		1		1	2
Isilinganiso	Isikhathi	3	1	3	1	8
	Ubude	3			1	4
	Isisindo		3		1	4
	Umthamo / okumumethwe			3	1	4
Ukuqokelelwa kolwazi	Ukuqoqa, ukuhlela, ukubeka okumele ulwazi nokuhlaziya izinto					
	Ulwazi oluphelele	3		3		6
	Izingxenye zolwazi oluphelele		1		1	2
Inani Lezifundo			**40**	**40**	**40**	**160**

Ithebula lesi- 3.4: Inani lezifundo eliphakanyisiwe lengxenye ngayinye yeBanga lesi- 3

Ingxenye yokuqukethwe	Isihloko	Inani Lezifundo				
		Ithemu 1	Ithemu 2	Ithemu 3	Ithemu 4	Isamba
Izinombolo kanye nobudlelwane bazo	Zonke izihloko zezinombolo kanye nobudlelwane bazo	26	22	19	27	**94**
Amaphethini, Ukuxhumana kanye ne-Aljebhra	Amaphethini ezinombolo	3	3	3	3	**12**
	Amaphethini ayizibalomdwebo	1	1	1	1	**4**
Indawo neSimo (Ijiyometri)	Izimo ezinhlangothi mbili	2		2		**4**
	Izinto ezinhlangothi ntathu		3	3	1	**7**
	Isikhundla, isimo nokubukeka kwento		2	3		**5**
	Okufana nse nxazombili		2		1	**3**
Isilinganiso	Isikhathi	3	2	3	2	**10**
	Ubude		2	2		**4**
	Isisindo		2		1	**3**
	Umthamo	2			1	**3**
	Ubude bengaphandle lento				1	**1**
	Ububanzi bendawo				2	**2**
Ukuqokelelwa kolwazi	Ulwazi oluphelele	3		3		**6**
	Izingxenye zolwazi oluphelele		1		1	**2**
Inani Lezifundo		**40**	**40**	**40**	**40**	**160**

ULWAZI JIKELELE LWEBANGA R 1. IZINOMBOLO, IZIMPAWU KANYE NOBUDLELWANO BAZO				
UKUBALA				
INGXENYE YOKUQUKETHWE	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
1.1 **Bala izinto** - (Qagela bese ubala izinto ukuthuthukisa ulwazi lwezinombolo)	**Uhla Lwezinombolo: 1 – 5** • Okukodwa nokukodwa okuhambisanayo Thula ishadi labasizi nendlela izidlo ezizolandelana ngayo • Bala ngakunye - Izinsiza kufunda eziphathekayo - Izingxenye zomzimba - Shaya izandla - Gxoba ngezinyawo - Gibela izitebhisi / Eqa izinto • Ukubala ngokuphimisa: imilolozelo namaculo ezinombolo	**Uhla Lwezinombolo: 1 – 7** • Okukodwa nokukodwa okuhambisanayo: Gcizelela ishadi labasizi nsukuzonke • Bala ngakunye - Izinsiza kufunda eziphathekayo - Izingxenye zomzimba - Shaya izandla - Gxoba ngezinyawo - Gibela izitebhisi / Eqa izinto • Ukubala ngokuphimisa imilolozelo namaculo ezinombolo • Shaya izandla izikhathi eziningi/ nezimbalwa	**Uhla Lwezinombolo: 1 kuya 10** • Okukodwa nokukodwa okuhambisanayo: Gcizelela ishadi labasizi nsukuzonke • Bala ngakunye - Izinsiza kufunda eziphathekayo - Izingxenye zomzimba - Shaya izandla - Gxoba ngezinyawo - Gibela izitebhisi / Eqa izinto • Ukubala ngokuphimisa imilolozelo namaculo ezinombolo • Shaya izandla izikhathi eziningi/ ezimbalwalyiphi; inombolo eshaye izandla izikhathi eziningi noma ezimbalwa?	**Uhla Lwezinombolo: 0 kuya 10** • Okukodwa nokukodwa okuhambisanayo: Gcizelela ishadi labasizi nsukuzonke • Bala ngakunye - Izinsiza kufunda eziphathekayo - Izingxenye zomzimba - Shaya izandla - Gxoba ngezinyawo - Gibela izitebhisi / Eqa izinto • Ukubala ngokuphimisaimilolozelo namaculo ezinombolo • Shaya izandla izikhathi eziningi/ ezimbalwa: iyiphi inombolo eshaye izandla izikhathi eziningi noma ezimbalwa?
1.2 **Bala uye phambili ubuye uye emumva**	**Uhla Lwezinombolo: 1** Ukubala unganakile usebenzisa imilolozelo, amaculo,izinto zokubala, izinto ezi 3-D, ukubala unyakazisa umzimba. **Bala:** • ngakunye	**Uhla Lwezinombolo: 1 kuya 4** Ukubala unganakile usebenzisa imilolozelo, amaculo,izinto zokubala izinto ezi3-D, ukubala unyakazisa umzimba. **Bala:** • ngakunye	**Uhla Lwezinombolo: 1 kuya 7** Ukubala unganakile usebenzisa imilolozelo, amaculo,izinto zokubala izinto ezi 3-D, ukubala unyakazisa umzimba kanye neshadi lesitebhisi sezinombolo. **Bala:** • ngakunye	**Uhla Lwezinombolo: 0 kuya 10** Ukubala unganakile usebenzisa imilolozelo, amaculo,izinto zokubala izinto ezi 3-D, ukubala unyakazisa umzimba kanye nesitebhisi sezinombolo **Bala:** • ngakunye • ngakubili

INGXENYE YOKUQUKETHWE	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
UKUBONA IZINOMBOLO				
1.3. **Izimpawu kanye namagama ezinombolo** (Bona ukhombe izimpawu namagama ezinombolo)	**Uhla lwezinombolo:** • Izimpawu zezinombolo: **1** • Amagama ezinombolo: **kunye** - Usebenzisa ukunyakazisa umzimba. - Usebenzisa izinto ezinezimo ezinhlangothintathu ezifaka unombolo 1. - Usebenzisa umfanekiso wokubonakalayo ofaka unombolo 1. - Isithombe esiwumfanekiso wokuphathekayo okufaka amakhadi anamachashaza afaka inombolo – 1. • Gcizelela ulwazi olutholiwe kufaka inombolo -1	**Uhla lwezinombolo:** • Izimpawu zezinombolo: **2 kuya 4** • Amagama ezinombolo: **kubili, kuthathu, kune** - Usebenzisa ukunyakazisa umzimba. - Usebenzisa izinto ezinezimo ezinhlangothintathu ezifaka izinombolo 2, 3, kanye ne- 4. - Usebenzisa umfanekiso wokubonakalayo ofaka izinombolo 2, 3, kanye ne- 4. - Isithombe esiwumfanekiso wokuphathekayo okufaka amakhadi anamachashaza afaka izinombolo – 2, 3, kanye ne-4. • Gcizelela ulwazi olutholiwe kufaka inombolo 1 – 4	**Uhla lwezinombolo:** • Izimpawu zezinombolo: **5 kuya 7** • Amagama ezinombolo: kuhlanu, yisithupha, yisikhomisa - Usebenzisa ukunyakazisa umzimba. - Usebenzisa izinto ezinezimo ezinhlangothintathu ezifaka izinombolo 5, 6, kanye ne – 7. - Usebenzisa umfanekiso wokubonakalayo ofaka izinombolo 5, 6, kanye ne – 7. - Isithombe esiwumfanekiso wokuphathekayo okufaka amakhadi anamachashaza afaka izinombolo –5, 6, kanye ne – 7 • Gcizelela ulwazi olutholiwe kufaka inombolo 1 – 7	**Uhla lwezinombolo:** • Izimpawu zezinombolo: **0 kuya 10** • Amagama ezinombolo: **iqanda, yisishiyagalombili, yisishiyagalolunye, yishumi** - Usebenzisa ukunyakazisa umzimba. - Usebenzisa izinto ezinezimo ezinhlangothintathu ezifaka izinombolo 0, 8, 9 kanye ne – 10. - Usebenzisa umfanekiso wokubonakalayo ofaka izinombolo 0, 8, 9 kanye ne – 10 - Isithombe esiwumfanekiso wokuphathekayo okufaka amakhadi anamachashaza afaka izinombolo –0, 8, 9 kanye ne – 10 • Gcizelela ulwazi olutholiwe kufaka inombolo 0 – 10

INGXENYE YOKUQUKETHWE	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
1.4 **Chaza, qhathanisa bese uhlela izinombolo** (Sebenzisa izinombolo ezimweni ezijwayelekile)	**Ukusebenzisa izinombolo ezimweni ezijwayelekile** • Umfundi akayazi iminyaka yakhe. • Ukugcwaliswa kwerejista yansukuzonke. Ukusebenzisa izindlela ezahlukene ukubiza uhla lwamagama kwi rejista nsukuzonke. Isibonelo: - Ukhona yini umfundi onophawu lwabhanana namuhla? - Ukhona yini umfundi onegama eliwuSipho namuhla? - Ukhona yini umfundi onegam eliwuSipho Vusumuzi, isibongo Madlala namuhla? • Ukukhomba izinombolo ezithombeni nasemakhadini anamachashaza. • Ukudlala umdlalo wamakhadi anezinombolo.	**Ukusebenzisa izinombolo ezimweni ezijwayelekile** • Umfundi akayazi inombolo yomuzi wakubonekheli lakubo • Gcizelela ukusebenzisa izinombolo ngokugcwalisa irejista yansukuzonke njangakwi themu yokuqala. Isibonelo: - Ukhona umfundi ohlala endlini ewunombolo 123 namuhla? - Ukhona umfundi ohla kunombolo 123 emgwaqweni uMzwilili namuhla? - Ukhona umfundi onocingo olunenombolo ewu 082 1234567 namuhla? • Ukukhomba izinombolo ezithombeni nasemakhadini anamachashaza • Ukudlala umdlalo wamakhadi anezinombolo. • Khomba izinombolo ezisezikhangisweni noma emaphepheni nakumakhadi amadala	**Ukusebenzisa izinombolo ezimweni ezijwayelekile** • Umfundi makayazi inombolo yocingo lwasekhaya nenombolo kamakhalekhukhwini yabazali. • Gcizelela ukusebenzisa izinombolo ngezindlela ezahlukene. Isibonelo: • Ukhona yini umfundi ozalwa namuhla izinsuku ziyi-16 Mashi? • Ukukhomba izinombolo ezithombeni nasemakhadini anamachashaza • Ukudlala umdlalo wamakhadi anezinombolo. • Khomba izinombolo ezisezikhangisweni noma emaphepheni nakumakhadi amadala.	**Ukusebenzisa izinombolo ezimweni ezijwayelekile** • Gcizelela ulwazi oluphathelene neminyaka, inombolo yendlu, ikheli, inombolo yocingo/ umakhalekhukhwini. • Gcizelela ukusebenzisa izinombolo ngezindlela ezahlukene. Isibonelo: • Bangaki abafundi abangekho namuhla esikoleni? - Qagela; - Bala izihlalo ezingenamunt - Bala izitsha ezingadlelanga; • Ukukhomba izinombolo ezithombeni nasemakhadini anamachashaza • Ukudlala umdlalo wamakhadi anezinombolo . • Khomba izinombolo ezisezikhangisweni noma emaphepheni nakumakhadi amadala. • Khomba izinombolo emabhukwini.

INGXENYE YOKUQUKETHWE	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
ULWAZI LWEZINOMBOLO (UBUDLELWANO)				
1.4 **Chaza, qhathanisa bese uhlela izinombolo** (Khomba bese uchaza izinombolo eziphelele) Qhathanisa iqoqo lezinto ezimbili ozinikwe ukuthi: Okukhulu nokuncane Okukhudlwana nokuncanyana Okuncane kakhulu nokukhulu kakhulu Qhathanisa iqoqo lezinto ezimbili ozinikwe ukuthi: Okungaphezulu kunokunye Okungaphansi kunokunye Okulinganayo (kuyafana)	**Uhla lwezinombolo: 1** • **Khomba bese uchaza** izinombolo eziphelele kufika ku – 1.	**Uhla lwezinombolo: 1 kuya 5** • **Khomba bese uchaza** izinombolo eziphelele-2,3, kanye noku-4 • Gcizelela izinombolo-1 kuya koku-4	**Uhla lwezinombolo: 1 kuya 7** • **Khomba bese uchaza** izinombolo eziphelele 5,6, no -7 • Gcizelela izinombolo-1 kuya kokuyi-7	**Uhla lwezinombolo: 0 kuya 10** • **Khomba bese uchaza** izinombolo eziphelele-8,9,10, no- 0 • Gcizelela izinombolo-0 kuya e-10
	Qhathanisa iqoqo lezinto ezimbili ozinikwe ukuthi: • Okukhulu nokuncane • Okukhulu ngokuthe xaxa kanye nokuncanyana • Okukhulu kakhulu nokuncane kakhulu (yethula ulwazi) • Hlela amaqoqo amabili ezinto ozinikiwe kusuka kokuncane kakhulu kuya kokukhulu kakhulu kanye nokukhulu kakhulu kuya kokuncane kakhulu			
	• Okuningi nokumbalwa Isib. ukushaya izandla benganakile	• Okuningi kunokunye, okuncane kunokunye, okulinganayo. • Okuningi nokumbalwa Isib. ukushaya izandla benganakile	• Okuningi kunokunye, okuncane kunokunye, okulinganoyo. • Okuningi nokumbalwa Isib. ukushaya izandla benganakile ubuze umbuzi ukuthi ikuphi ukushaya okuningi, nokumbalwa.	• Okuningi kunokunye, okuncane kunokunye, okulinganoyo. • Okuningi nokumbalwa Isib. ukushaya izandla benganakile ubuze umbuzi ukuthi ikuphi ukushaya okuningi, nokumbalwa.

INGXENYE YOKUQUKETHWE	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
Izinombolo ezisho isikhundla	**Thuthukisa ngokuqaphela ukufunda ngokunganakile izinombolo ezisho isikhundla:** Isib. okokuqala, okwesibili, okwesithathu . . . okulandelayo, okokugcina • Kungenise **ngesikhathi sezidlo nangesikhathi sokuya ngasese** – owokuqala, owesibili, okokugcina, okulandelayo.	**Thuthukisa ngokuqaphela ukufunda ngokunganakile izinombolo ezisho isikhundla:** Isib. okokuqala, okwesibili, okwesithathu . . . okulandelayo, okokugcina • Gcizelela ukufundwa ngokunganakile izinombolo ezejwayelekile ngesikhathi sokuya ngasese. • Kusebenzise futhi ngesikhathi kufundwa isifundo samakhono empilo • Nangesikhathi sokuthuthukiswa kwezicubu zomzimba nangesikhathi sokufunda ezobuciko.	**Thuthukisa ngokuqaphela ukufunda ngokunganakile izinombolo ezisho isikhundla:** Isib. okokuqala, okwesibili, okwesithathu . . . okulandelayo, okokugcina • Gcizelela ukufundwa ngokunganakile izinombolo ezejwayelekile ngesikhathi sokuya ngasese. • Kusebenzise futhi ngesikhathi kufundwa isifundo sokuthuthukiswa kwezicubu zomzimba	**Thuthukisa ngokuqaphela ukufunda ngokunganakile izinombolo ezisho isikhundla:** Isib. okokuqala, okwesibili, okwesithathu . . . okulandelayo, okokugcina • Yethula izinombolo ezejwayelekile – eyokuqala, eyesibili, eyesithathu kuya kweyesithupha • Gcizelela ukufundwa ngokunganakile izinombolo ezingajwayelekile ngesikhathi sokuya ngasese. • Kusebenzise futhi ngesikhathi kufundwa isifundo sokuthuthukiswa kwezicubu zomzimba
SEBENZISA AMAQHINGA ESIMWENI ESEJWAYELEKILE UKUXAZULULA IZINKINGA:				
1.6 **Amaqhinga okuxazulula izinkinga** (Sebenzisa lamaqhinga namasu alandelayo)	**Sebenzisa lamaqhinga alandelayo** • Izinsiza kusebenza eziphathekayo, Isib. izivalo zamabhodlela, amtshe njll	**Sebenzisa lamaqhinga alandelayo** • Izinsiza kusebenza eziphathekayo, isib. izivalo zamabhodlela, amatshe njll	**Sebenzisa lamaqhinga alandelayo** • Izinsiza kusebenza eziphathekayo, Isib. izivalo zamabhodlela, amtshe njll • Ishadi lesitebhisi sezinombolo	**Sebenzisa lamaqhinga alandelayo** • Izinsiza kusebenza eziphathekayo, Isib. izivalo zamabhodlela, amtshe njll • Ishadi lesitebhisi sezinombolo

INGXENYE YOKUQUKETHWE	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
1.7 **Ukuhlanganisa nokususa** (Kukhulunywa kuxazululwa izinkinga zezibalo zamagama (zengxoxo) uchaze izixazululo kufaka lokhu okulandelayo: Ukuhlanganisa nokususa okufaka izimpendulo kufinyelela e – 10) **1.9** **Ukwenza iqoqo nokukwabelana okuholela ekuhlukaniseni** Ukwenza iqoqo nokwabelana ngokulinganayo izinombolo eziphelele kuya e – 10 nezimpendulo ezifaka izinsalela.		• Sebenzisa izinsiza kubala ubuye uxazulule izinkinga ezifaka lezinombolo: 2, 3 kanye 4. • Gcizelela ukuxazululwa kwezinkinga ezifaka lezizinombolo:1 kuya koku–4	• Sebenzisa izinsiza kubala ubuye uxazulule izinkinga ezifaka lezinombolo: 5 , 6, kanye ne – 7 • Gcizelela ukuxazululwa kwezinkinga ezifaka lezizinombolo:1 kuya kokwi – 7	• Sebenzisa izinsiza kubala ubuye uxazulule izinkinga ezifaka lezinombolo: 8, 9, 10 kanye no – 0 • Gcizelela ukuxazululwa kwezinkinga ezifaka lezizinombolo: 1 kuya e – 10

INGXENYE YOKUQUKETHWE	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
1.11 Imali		**Imali** • Ukuthuthukisa ulwazi ngemali ewuhlweza esetshenziswa ezweni lethu eNingizimu Afrika. 20c, 50c, R1, R2, R5 • Ukubona umbala nesilwane esisemalini ewuhlweza. • Ukubona okufanayo nokuhlukile emalini ewuhlweza. Isibonelo: umdlalo wokuhlukanisa imali ngemibala nangobukhulu. • Nikeza imali yokudlala egunjini lezinto zasekhaya.	**Imali** • Ukuthuthukisa ulwazi lwemali engamaphepha yaseNingizimu Afrika. R10, R20, R50, R100, R200, • Ukubona okufanayo nokuhlukile emalini engamaphepha. Isibonelo: umdlalo wokuhlukanisa imali ngemibala nangobukhulu • Nikeza imali yokudlala egunjini lezinto zasekhaya.	**Imali** • Nikeza imali yokudlala egunjini lezinto zasekhaya.
BALA USEBENZISA:				
1.13 **Ukuhlanganisa nokususa** (Xazulula Ukukhuluma ukuhlanganisa nokuhlukanisa okunezixazululo ezifinyelela e – 10)		Xazulula izinkinga zokuhlanganisa nokususa ezinezimpendulo ezifinyelela koku – 4.	Xazulula izinkinga zokuhlanganisa nokususa ezinezimpendulo ezifinyelela koku – 7. .	Xazulula izinkinga zokuhlanganisa nokususa ezinezimpendulo ezifinyelela e – 10.

Izinhlobo zezinkinga zeBanga R

Izinkinga ezisetshenziswa kubafundi beBanga R kumele zisebenzise kuphela izinto ezitholakala ekilasini, isib. Izinto zokubala, abantwana , izicathulo, kodwa hhayi lezizibonelo, amaswidi, onogwaja, izimbali njll. Akubona bonke abantwana abasebancane abangenza sengathi izinto zokubala noma iminwe ingaba onogwaja – badinga izinto uqobo.Uthisha angasebenzisa kuphela izithombe engxenyeni yesibili yonyaka.Izinto eziphatheka yo kufanele ukuba sihlale zitholakala/ zikhona – izithombe ngezokwengeza, akuzona ezokubamba isikhundla sezinto eziphathekayo. Izinti zokubala uthisha angazisebenzisa uma engenazo izinsiza ezanele.

Lezinkinga ezilandelayo ziveza izinhlobo zezinkinga, kanti kumele zishintshwe uthisha ukuze zilungele izinga lokuqonda kwabafundi.

Ukwenza amaqoqo

Lapha kunamakhekhe 8 (uthisha upakisha izinto zokubala 8, noma akhombise isithombe samakhekhe ayisishiyagalombili.) UNobuhle uthola amaklhekhe amabili nsukuzonke. Uzothola amakhekhe amangaki usuku ngalunye?

Ukwabelana

Kunamakhekhe ayisithupha. (uthisha upakisha izinto zokubala eziyisithupha, noma akhombise isithombe samakhekhe ayisithupha.) izingane ezintathu kumele zabelane ngalamakhekhe ukuze bonke bathole amakhekhe anenani elilinganayo. Iyinye ingane izothola amakhekhe amangaki?

Ukuhlanganisa, ukususa, ukuhlanganisa ngokuphindelela

Izingane ezimbili zinamehlo amangaki?
izingane ezine zinezindlebe ezingaki?
isandla esisodwa sineminwe emingaki?
izandla ezimbili zineminwe emingaki?
ULinda unezinto zokubala eziyisithupha.Wanika uSihle izinto zokubala ezimbili.Zingaki izinto zokubala asenazo manje?

Uthisha kufanele azihlanganise izinkinga zezibalo zansukuzonke.Kumele baqhubeke isibalo sezinombolo abazisebenzisayo ezinkingeni zezibalo Bangavele bacabange ukuthi abafundi angeke bakhone ukwenza izibalo ngezinombolo ezinkulu

ULWAZI JIKELELE LWEBANGA R 2. AMAPHETHINI NEMISEBENZI				
ULWAZI	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
2.1 **Amaphethini okusazibalomdwebo** (Kopela ukhulise amaphethini alula aphindaphindayo usebenzisa izinto eziphathekayo kanye nemidwebo.) (Qamba awakho amaphethini aphindaphindayo)	• Khomba amaphethini empahleni, ezintweni kanye nase nhlalweni yendawo. • Kopela uqedele amaphethini. • Kopela amaphethini usebenzisa umsindo owenza ngokushaya umzimba. • Kopela,qedela bese uqamba awakho amaphethini.	• Kopela, qedela bese uqamba awakho amaphethini. • Kopela iphethini oyinikiwe usebenzisa imali ewuhlweza	• Kopela,andisa bese uqamba awakho amaphethini anezithombe.	• Kopela, andisa bese uqamba awakho amaphethini omsindo / umculo olalelwayo. • Kopela amaphethini omsindo. • Dlala umdlalo wamaphethini (gxa / hop scotch)

ULWAZI JIKELELE LWEBANGA R 3. INDAWO NESIMO (IJIYOMETRI)				
ULWAZI	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
3.1 **isikhundla indawo nokubukeka kwayo** Chaza isimo ezinhlangothi ntathu ngokuhlobana kwazo (Isib.ngaphambili nangemuva)	**Ubudlelano nendawo akuyo** **Ukuma kwezinto ngazimbili nangaphezulu kunendawo umfundi akuyo.** • Ngaphambi kwenye nasemuva • Ngaphezu,phezu kwe,ngaphansi kanye nangaphansi • Phakathi kanye nangaphandle • Ngenhla nangezansi • Eduze kwe kanye naphakathi. **Ukubaluleka kwemidlalo yaphandle.Kungasetshenziswa kwejangijimu ukugcizelela: Isib.** • Ulwazi lwezibalo • Ubuciko bokuzenzela • Ukuthuthukiswa kokunyakaza komzimba	**Ubudlelano nendawo akuyo** **Ukuma kwezinto ngazimbili nangaphezulu kunendawo umfundi akuyo.** • Ngaphezu nangaphansi.	**Ubudlelano nendawo akuyo** **Ukuma kwezinto ezimbili nangaphezulu kunendawo umfundi akuyo.** • Ngaphambi kwe kanye nasemuva • Ngaphezu,phezu kwe:,ngaphansi kanye nangezansi • Eduze kwe • Phakathi nendawo • Kwesobunxele kanye nesokudla • umsebenzi wepekisibhodi. **Ukunikeza imiqondo eyahlukene nyezinto,Isib.unodoli,indlu ngaphambili,ngasemuva,**	**Ubudlelano nendawo akuyo** **Ukuma kwezinto ezimbili nangaphezulu kunendawo umfundi akuyo.** • Ngaphambi kwe.. kanye nasemuva • Phezu kwe..,ngaphansi noma ngezansi • ngaphezulu kwe.. • nangaphansi kwe.. • eduze kwe;okuphakathi kwezinto kanye nokumaphakathi • Kwesobunxele kanye nesokudla. **Ubudlelwano bezinto ezimbili nangaphezulu ngokwezikhundla zazo** • Ngaphambi kwe kanye nasemuva • phezu kwe:,ngaphansi kanye nangezansi • phezulu kanye nangaphansi • eduze kwe;okuphakathi kwezinto kanye nokumaphakathi • Kwesobunxele kanye nesokudla.
Landela imiyalelo (ngayedwa, ngamaqoqo nangamaqembu) gudluka noma ame ndawana thizeni. okwenkombandlela)	• Inkombandlela-phambili/emuva • imidlalo efana nesitimela • Ukweqa izinto eziyinqinamba – ulalendela imiyalelo • Imisebenzi yokuthuthukiswa kwezicubu zomzimba kanye nomculo		• Inkombandlela-phambili/emuva • Ishadi lemicibisholo	• Inkombandlela-phambili/emuva • Phezulu naphansi, • ukwenyuka nokwehla • Kwesobunxele kanye nesokudla • Uphumaphi umsindo?

ULWAZI	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
3.2 **Izinto ezinhlangothi ntathu (3-D)** (Bona,khomba uphinde usho izinto ezinhlangothi ntathu ekilasini: a) amabhola b) Amabhokisi	• **Amabhola:**yethula ubuye udlale ngamabhola. • **amabhokisi:** yethula ubuye udlale ngamabhokisi			
3.2 **Izinto ezinhlangothi ntathu (3-D)** **Chaza,hlela ubuye uqhathanise izinto ezinhlangothi ntathu 3-D nezimo ezinhlangothimbili 2-D ngoloku:** a)ubungako (okukhulu / okuncane) b) a umbala (obomvu, oluhlaza okwesibhakabhaka, oliphuzi, oluhlaza okusatshani) c)izimo (indilinga, unxantathu, isikwele, unxande) d)izinto eziginqikayo e)izinto ezishelelayo	• Ngenisa ishadi lokuqoqa (ukuqoqa amathoyisi) • **Ubungako**: hlela izinto ezinhlangothi ntathu • **Umbala**: hlela izinto ezinhlangothi mbili nantathu ngokwemibala eyisisekelo • **Izimo:** hlela izinto ezinhlangothi mbili nantathu ngokwezimo. • Izinto eziginqikayo • Khomba uphinde uhlole izimo eziginqikayo. • Gcizelela izinto eziginqikayo. • Izinto ezishelelayo • Khomba uphinde uhlole izinto ezishelelayo. • Bona uizinto ezishibilika neziginqikayo	• Hlela ngokufana nangokuhluka kwezinto • **Ubungako:** hlela ngobungako bezinto ezinhlangothi ntathu. • **Umbala:**bona uphinde uhlele izinsiza kubala ngokwemibala obomvu, oluhlaza okwesibhakabhaka,oliphuzi kanye noluhlaza okusatshani. • **Izimo:** hlela izinto ezinhlangothi ntathu kanye nezimo ezinhlangothi mbili ngokwezimo.	• **Ubungako:** hlela ngobungako bezinto ezinhlangothi ntathu • **Umbala:** hlela izinto ezinhlangothi ntathu kanye nezimo ezinhlangothi mbili ngokwemibala. • **Izimo:** hlela izinto ezinhlangothi ntathu kanye nezimo ezinhlangothi mbili ngokwezimo.	• **Ubungako:** hlela ngobungako bezinto ezinhlangothi ntathu • **umbala:** hlela izinto ezinhlangothi ntathu kanye nezimo ezinhlangothi mbili ngokwemibala. • **Izimo:** hlela izinto ezinhlangothi ntathu kanye nezimo ezinhlangothi mbili ngokwezimo.

ULWAZI	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
Yakha izinto ezinhlangothi ntathu 3-D usebenzisa izinto eziphathekayo (Isib.amabhuloki okwakha)	**Okuqhubekayo** • Nikeza abafundi amabloki okwakha nanoma eziphi izinto zokudlala nhokwakha ngesikhathi sokudlala ngokukhululeka nsuku zonke • Abafundi badlala ngamabloki okwakha	**Okuqhubekayo** • Nikeza abafundi amabloki okwakha nanoma eziphi izinto zokudlala nhokwakha ngesikhathi sokudlala ngokukhululeka nsuku zonke • Abafundi badlala ngamabloki okwakha	**Okuqhubekayo** • Nikeza abafundi amabloki okwakha nanoma eziphi izinto zokudlala nhokwakha ngesikhathi sokudlala ngokukhululeka nsuku zonke • Abafundi bakha izakhiwo zabo ngokukopela kwisibonelo sesakhiwo abasinikeziwe. • Kopela isimo sokwakha esifanayo ususela kumdwebo othize noma isithombe. • Gcizelela ukukopela isimo sokwakha esifanayo ususela kumdwebo othize noma isithombe.	**Okuqhubekayo** • Nikeza abafundi amabloki okwakha nanoma eziphi izinto zokudlala nhokwakha ngesikhathi sokudlala ngokukhululeka nsuku zonke • Okuqhubekayo okungaphakathi ngesikhathi sokudlala ngokukhululekiley inside
3.3 Izimo ezinhlangothi mbili (2-D) **Bona,khomba uphinde usho izinto ezinhlangothi mbili ekilasini nasezithombeni kufaka:** a) izimpawu zabafundi b) igama eikilasi **Akhiwa kanjani amaphazile ngobuncane obuwu:** a) (ithemu 1: b) izingcezu eziyi- 6) c) (ithemu 2: izingcezu eziyi-12) d) (ithemu 3: izingcezu eziyi-18) e) (ithemu 4: izingcezu eziyi-24)	• uvumela abafundi ukuzikhela amakhadi anezimpawu ngosuku lokuqala. • Khombisa uphawu / isithombe somfundi esikhathini esiyizinyanga ezi-3 zokuqala onyakeni. • Yethula igama lekilasi ngokusebenzisa isithombe noma igama lembali / ithoyizi. • Bhala igama likathisha emnyangweni wekilasi. • Bhala okukhombisa iBanga (iBanga –R) **Amaphazili** • **Yethula amaphazili** unike iseluleko ngokwakhiwa kwawo. • Xoxa ngephazili eyisithombe uqhaphele kakhulu imibala, abantu / izilwane,izinto,chaza ukuthi into noma umuntu ikuphi uma uyiqhathanisa nenye. • Kufanele abafundi baqede okungenani izingcezu eziyisi-6 ekupheleni kwethemu -1.	Ngezinyaga ezintathu zokuqala onyakeni khangisa **izimpawu / amagama/izithombe** zabafundi. Kuyaqhubeka **Amaphazili (ayaqhubeka)** • Nikeza abafundi izinhlobo nhlobo zamaphazili ngesikhathi sokudlala ngokukhululeka nsuku zonke. • Kufanele abafundi baqede okungenani **izingcezu eziyi-12** ekupheleni kwethemu -2 • Benza baqede amaphazili abo anezingcezu ezi -4	Ngezinyanga eziyisithupha zokugcina zonyaka khangisa **amagama abafundi**. Kuyaqhubeka **Amaphazili (ayaqhubeka)** • Nikeza abafundi izinhlobo nhlobo zamaphazili ngesikhathi sokudlala ngokukhululeka nsuku zonke • Kufanele abafundi baqede okungenani **izingcezu eziyi-18** ekupheleni kwethemu -3 • Benza baqede amaphazili abo anezingcezu ezi -5	Ngezinyanga eziyisithupha zokugcina zonyaka khangisa **amagama abafundi** Kuyaqhubeka **Amaphazili (ayaqhubeka)** • Nikeza abafundi izinhlobo nhlobo zamaphazili ngesikhathi sokudlala ngokukhululeka nsuku zonke • Kufanele abafundi baqede okungenani **izingcezu ezingama -24** ekupheleni kwethemu -3

ULWAZI	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
3.3 **Ukubona izinto ngokuqonda phakathi kwezinye** Okusazibalomdwebo a) indilinga b) unxantathu c) isikwele d) unxande e) ukulondolozwa kwezimo (isimo esingashintshi)	• Fundisa ukubona izinto ngokuqonda phakathi kwezine (yethula-"ngibona ngamehlo ami amancane") • Gcizelela indilinga. • Yethula indilinga. • Yethula unxantathu • Yethula isikwele	• Gcizelela ukubona izinto ngokuqonda phakathi kwezinye ngokwenza imisebenzi yokuhlela,imisebenzi yokuqhathanisa nokwenza amaqoqo kanye nokuqoqa. • Gcizelela unxantathu • Ukulondolozwa kwezimo(isimo esingashintshi unxantathu)	• Gcizelela ukubona izinto ngokuqonda phakathi kwezinye ngokwenza imisebenzi yokuhlela,imisebenzi yokuqhathanisa nokwenza amaqoqo kanye nokuqoqa • Gcizelela isikwele • Ukulondolozwa kwezimo(izimo ezingashintshi ezifundiwe)	• Gcizelela ukubona izinto ngokuqonda phakathi kwezinye ngokwenza imisebenzi yokuhlela,imisebenzi yokuqhathanisa nokwenza amaqoqo kanye nokuqoqa • Gcizelela indilinga, unxantathu, isikwele kanye nonxande. • Ukulondolozwa kwesimo (izimo ezingashintshi ezifundiwe)
3.4 **Okufana nse nxazombili** (Ukubona umugqa ohlukanisa kabili kuyena kufane nse kanye nezinto ezisendaweni aphila kuyo.)	• Abafundi bafunda ngezicubu zomzimba (uzibale), • khanda, amehlo, ikhala, umlomo isilevu, amahlombe, ingalo, isandla, iminwe, isifuba, umlenze, idolo, unyawo, izinzwane • Umzimba unezinhlangithi ezimbili • Gcizelela ukuthi umzimba unezinhlangothi ezimbili, olunye uhlangothi lungakwesokudla olunye ngakwesonxele • Kufundwa izibalongo kubala okungenhla kungenziwa ngesikhathi sesifundo sokuthuthukisa izicubu zomzimba, • Kusetshenziswa imilolozelo namaculo . • Ngesikhathi sobuciko bokwenza	• Kufundwa izibalo kuphanjaniswe izandla ngesikhathi sesifundo sokuthuthukisa izicubu zomzimba, • Kufundwa izibalo ngokubala ngesikhathi samafundo sakhono empjlo (ukunyakazisa umzimba) • Kusetshenziswa imilolozelo namaculo . • Ngesikhathi sobuciko bokwenza	• Kufundwa izibalo kweqiwa ulayini ebhodini ngesikhathi sesifundo sokuthuthukisa izicubu zomzimba • Kufundwa izibalo ngokubala ngesikhathi samafundo sakhono empilo (ukunyakazisa umzimba)	• Thuthukisa ulwazi lwezinto ezifana nse nxazombili. • Kufundwa izibalo ngokubala ngesikhathi samafundo sakhono empjlo (ukunyakazisa umzimba)

ULWAZI JIKELELE LWEBANGA R 4. ISILINGANISO				
ULWAZI	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
4.1 **Isikhathi:** Chaza isikhathi sosuku ngemini nobusuku: Ukulandelana kwezehlakalo ezenzekayo ezimpilweni zabo. a) Uhlelo lwansukuzonke b) Ishadi lesimo sezulu	• Abafundi bafunda ukuqonda isikhathi: ngemini nobusuku, ngokukhanya / nobumnyama • Ekuseni, ntambama, ebusuku - (befunda benganakile uma kufundwa ishadi lesimo sezullu)			
	• **Ukuthulwa kohlelo lwansukuzonke** - Abafundi bafunda ngokuhlela izehlakalo zosuku. - Kukhangiswa izithombe kusukela kwesonxele kuya kwesokudla ukuthuthukisa ukufunda ngezinkomba. - Umholi wosuku ugudlula umcibisholo ohlakeni lwansukuzonke ngokuqhubeka kwemisebenzi yosuku. • **Fundisa ishadi lesimo sezulu** (nsukuzonke) - Uthisha usiza abafundi ukusho usuku, ilanga nenyanga besebenzisa imilolozelo, izingqwembe zamagama kukhangiswe izimpawu nalebuli ekhalendeni yesonto - Qaphela ngokufundwa kwesikhathi. - Khombisa izinsukuzokuzalwa, zokuvakasha, izinsuku ezikhethekile, izinsuku zokuphumula - Sebenzisa iculo ukuhlela izinyanga zonyaka ngeculo	• **Ukuthulwa kohlelo lwansukuzonke** - Kugcizelelwa ukuhlelwa kwezehlakalo zosuku ngokohlaka lwansukuzonke. • **ishadi lesimo sezulu** (nsukuzonke) - Uthisha usiza abafundi ukusho usuku, ilanga nenyanga besebenzisa imilolozelo, izingqwembe zamagama kukhangiswe izimpawu nalebuli ekhalendeni yesonto	• **Ukuthulwa kohlelo lwansukuzonke** - Kugcizelelwa ukuhlelwa kwezehlakalo zosuku ngokohlaka lwansukuzonke. • **ishadi lesimo sezulu** (nsukuzonke) - Uthisha usiza abafundi ukusho usuku, ilanga nenyanga besebenzisa imilolozelo, izingqwembe zamagama kukhangiswe izimpawu nalebuli ekhalendeni yesonto	• **Ukuthulwa kohlaka lwansukuzonke** - Kugcizelelwa ukuhlelwa kwezehlakalo zosuku ngokohlaka lwansukuzonke. • **ishadi lesimo sezulu** (nsukuzonke) - Uthisha usiza abafundi ukusho usuku, ilanga nenyanga besebenzisa imilolozelo, izingqwembe zamagama kukhangiswe izimpawu nalebuli ekhalendeni yesonto

ULWAZI	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
4.1 **Isikhathi:** a) izinsuku zesonto b) Ishadi lezikhathi zonyaka	• **Izinsuku zesonto** - Uthisha ufundisa abafundi izinsuku zesonto esebenzisa amaculo noma imilolozelo. - Sebenzisa iculo ukuhlela izinsuku zesonto • **Ishadi izikhathi zonyaka** - Yethula ishadi ukukhombisa izikhathi zonyaka: o Ihlobo o Ikwindla o Ubusika o intwahlobo	• **Izinsuku zesonto (kuyaqhubeka)** - Uthisha ufundisa abafundi izinsuku zesonto esebenzisa amaculo noma imilolozelo nsukuzonke uma kuxoxwa ngesimo sezulu. • **Ishadi izikhathi zonyaka** - umcibisholo okhomba isikhathi sonyaka uyashintsha uma kushintsha iskhathi sonyaka. - Ngosuku lokuqala esikoleni emuva kwamaholidi abafundi baxoxa ngabakwenzile ngesikhathi samaholidi. - thuthukisa ulwazi lwabafundi lokwazi izinto okufanele bazenze uma bevuka kuze kufike isikhathi sokuya esikoleni - thuthukisa umfundi ,ngesikhathi sesidlo sasebusuku kanye nesokulala.	• **Izinsuku zesonto (kuyaqhubeka)** • **Ishadi izikhathi zonyaka** - umcibisholo okhomba isikhathi sonyaka uyashintsha uma kushintsha iskhathi sonyaka. - Ngosuku lokuqala esikoleni emuva kwamaholidi abafundi baxoxa ngabakwenzile ngesikhathi samaholidi	• **Izinsuku zesonto (kuyaqhubeka)** • **Ishadi izikhathi zonyaka** - umcibisholo okhomba isikhathi sonyaka uyashintsha uma kushintsha iskhathi sonyaka - Ngosuku lokuqala esikoleni emva kwamaholidi abafundi baxoxa ngabakwenzile ngesikhathi samaholidi
Yethula ishadi lezinsuku zokuzalwa	• Yethula **ishadi lezinsuku zokuzalwa** • Abafundi kufanele bazi iminyaka yabo • Thuthukisa uqwashise ngokufundwa kwezinkombandlela • Abafundi kufanele bazi izinsuku zokuzalwa kwabo (usuku nenyanga)	• Baqhubeka nokugubha usuku lokuzalwa lomfundi ngamunye belandela ishadi lesinsuku zokuzalwa. • Kuyaqhubeka	• Baqhubeka nokugubha usuku lokuzalwa lomfundi ngamunye belandela ishadi lesinsuku zokuzalwa. • Kuyaqhubeka	• Baqhubeka nokugubha usuku lokuzalwa lomfundi ngamunye belandela ishadi lesinsuku zokuzalwa. • Kuyaqhubeka

ULWAZI	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
4.2 **Ubude** Qhathanisa uhlele izinto eziphathekayo usebenzisa ulwazi magama ukuchaza ubude • Fundisa ishadi lokukala ubude - usebenzisa izandla (bebona futhibefunda benganakile - Sebenzisa izinyawo ukukala (bebona futhibefunda benganakile). - Kala usebenzise isikali bude (bebona futhibefunda benganakile) - kude, kufishane, Kudana,kufishane - Kuphakeme,kupha - keme kakhudlwana, kuphakeme kakhulu (okubonakalayo) - ukuqagela	**Ubude** • Okude nokufishane, okude ngokuthe xaxa, okude kahulu (bebuka) • Fundisa ngobude • Ishadi lokukala ubude kusetshenziswa izandla / izinyawo	**Ubude** • Okude kakhulu kanye nokufishane kakhulu, okude ngokuthe xaxa kanye nokufishane kunokunye. (Sebenza ngobude) • Gcizelela okufundwe ngobude • Kusetshenziswa ishadi lokukala ubude ukubheka ukukhula kwabafundi. ***(abafundi baqhathanisa ubude babo nezinto ezisekilasini Isib. ikhabethe)***	**Ubude** • Qagela ubude bezinto eziphathekayo ezahlukene. • Qagela bese ukala ubude bezinto ezahlukene: Isib. Usebenzisa izandla, izinyawo, isinqamu sentambo njll.	**Ubude** • Kala ubude babafundi usebenzisa intambo yokukala.***(shintsha izandla ngentambo yokukala)***

ULWAZI	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
4.3 **Isisindo** Qhathanisa uhlele izinto usebenzise ulwazi lamagama ukuchaza lokhu okulandelayo: a) Okulula, okusindayo b) Okulula kakhulu nokusinda kakhulu c) Qhubeka ukale ngesikhathi sokudlala ngamanzi nenhlabathi			**Isisindo** • Fundisa abafundi ngesisindo ngokuqhathanisa izisindo zezinto eziphathekayo ezahlukene.Isib. - Okulula / okusindayo - Okulula kakhulu /okusinda kakhulu • Gcizelela ukufundwa kwesisindo. (Okulula kakhulu /okusinda kakhulu)	
4.4 **Umthamo** Qhathanisa uhlele izinto usebenzise ulwazi lamagama ukuchaza lokhu okulandelayo: a) Okungenalutho, okugcwele, b) okuningi, okuncane c) okuncane kunokunye, okungaphezulu kunokunye, d) Qhubeka ukale ngesikhathi sokudlala ngamanzi nenhlabathi			**Umthamo** • Fundisa abafundi ukukala umthamo ngokuqhathanisa umthamo wezitsha ezinhlobonhlobo.Isib. - okungenalutho /okugcwele” - “okuningi kunokunye/okuncane kunokunye” - Okuningi/okuncane • Kuqhubeka ngesikhathi somdlalo wesihlabathi namanzi.	

ULWAZI JIKELELE LWEBANGA R: 5. UKUQOKELELWA NOKUHLELWA KOLWAZI LWEZIBALO				
ULWAZI	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
5.1 **Qoqa uhlele izinto** Qoqa ulwazi Qoqa izinto eziphathekayo zohlobo olulodwa (eyedwa noma eyilunga leqembu noma laBangani) isib. Amaqabunga ayishumi, izimo ezilishumi	• Yethula ulwazi lokuqoqwa kolwazi ngokuqoqa ulwazi Isib. mangaki amantombazana, Bangaki abafana ekilasini.	• Qoqa izinto (izindukwana ezinobungako obungalingani)	• Buza umbuzo: “ngabe amagama anezinhlavu eziyisithupha iwona ajwayelekile?” • Qoqa ulwazi ukuphendula umbuzo usebenzisa amakhadi amagama.	• Sebenzisa ishadi lezinsuku zokuzalwa ukuthola ukuthi ubani ozalwayo kuleyonyanga • Qoqa ulwazi kubafundi ukuthola umbala wobumba lokudlala oluzosetshenziswa ngesonto elilandelayo isb.oluhlaza satshani, oluhlaza njengesibhakabhaka, oliphuzi. Qoqa ulwazi (iziphi izinhlobo zezithuthi ezisetshenziwa abafundi ukuza esikoleni)
Hlela ulwazi Hlela izinto eziphathekayo ngokwesimo esisodwa isib. Ubungako bamaqabunga	• Hlela ulwazi ngokuthi abafundi benze umugqa wabafana nowamantombazane	• Hlela izinto eziqoqiwe (izindukwana ezinobungako obehlukene)	• Hlela amakhadi amagama ngokwenani lwezinhlavu zamagama egameni ngalinye.	• Hlela ulwazi ngokwenyanga zokuzalwa zomfundi ngamunye • Umfundi ngamunye ukhetha ibhuloki eyodwa emele umbala wobumba lokudlala ngalelosonto. • Hlela ulwazi oluqoqiwe (abahamba ngezinyawo, imoto, imoto yabazali, itekisi noma ibhasi)
5.2 **okumele izinto eziqoqiwe** (Dweba igrafu ukukhombisa ulwazi Dweba isithombe esitshengisa izinto eziqoqiwe)	• Yeza igrafu emele izinto eziqoqiwe usebenzisa amabhuloki noma izimo.	• Dweba igrafu yezinto eziqoqiwe. (izindukwana ezizilinganiso ezehlukene)	• Dweba igrafu ngokunamathisela ikhadi legama ngalinye esikhaleni esifanele.	• Dweba igrafu emele izinsuku zokuzalwa zabafundi inyanga ngayinye. • Sebenzisa izinto eziphathekayo ukwenza igirafu njengamabhuloki,kaLego noDuplo, amakhiyubhu apakishwayo amele umbala wobumba ofisa ukulwenza isib. Oluhlaza njengesibhakabhaka, ophuzi, oluhlaza njengotshani.
				• Dweba igrafu yezithombe emele (inani labafundi abahamba ngezinyawo, imoto, imoto yabazali, itekisi noma ibhasi)

ULWAZI	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
5.3 **Xoxa ngezinto ezihleliwe** Funda bese uhumusha amagrafu. Baphendula imibuzo ngezithombe zabo noma izinto abazihlelile. (Isib.mangaki amaqabunga amakhulu owadwebile? Amaphi amaningi, amakhulu noma amancane?”)	• Bafunda bese behumusha ulwazi ngokusebenzisa ubumba lokudlala ukumela inani labafana kanye namantombazana ekilasini.	• Bafunda bese behumusha igirafu besebenzisa imibuzo.	• Bafunda bese behumusha ngokubala inani lamakhadi ezinombolo esikhaleni ngasinye ukuze bafinyelele esiphethweni.	• Bafunda bese behumusha igirafu besebenzisa imibuzo ukuthola iyiphi inyanga enezinsuku eziningi zokuzalwa kwabafundi. • Ngokozikhethela kwabafundi umbala ozosebenza ngesonto Isib.obomvu. • Funda bese behumusha igirafu (Bangaki abahamba ngezinyawo,imoto, imoto yabazali,itekisi noma ibhasi)

3.5 INCAZELO YOLWAZI LWEBANGA R

ITHEMU 1 YEBANGA R			
Isonto 1	**Izikhathi Zokufunda Eziphakanyisiwe:**		
Ukujwayeza	**Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
4.1 **Isikhathi**	**Ukulandelanisa izehlakalo zansuku zonke ezimpilweni zabo** • Ukwethula Uhlelo Lwansuku zonke - Ukuthuthukisa ukulandelana kwezehlakalo ezenziwa ngosuku. - Ukubeka izithombe kusukela kwesobunxele kuya kwesokudla. - Umholi weqembu uzohambisa umcibisholo uska kwesokudla uya kwesobunxele ngokuhamba kohlelo losuku. - Abafundi babona ukulandelana kwemisebenzi yosuku-	Uhlelo Losuku Lukhonjiswe ngezithombe	Okwenziwa nsukuzonke emva kokwethulwa kwako

UHLELO LWANSUKU ZONKE OLUPHAKANYISIWE










Ukufika	**Ukubizwa kwerejista, izinsuku zokuzalwa, isimo sezulu, izinda zansuku zonke**	**Uhlelo lukathisha lwemisebenzi yekilasi, okubunjwajo, ukudweba, nokupenda, isikhathi sokudlala esikhululekile okwenziwa ngaphakathi ekilasini**	**Ukuqoqa**	**Umsebenzi oholwa uthisha wekilasi**	**Uhlelo Lokuya endlini encane**



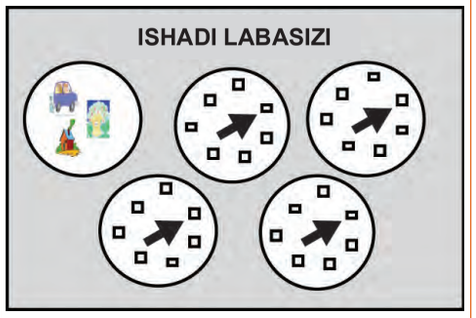





Isikhathi sokudla	**Ukudlala okukhululekile ngaphandle kwekilase kanye nokuqoqa**	**Uhlelo lokuya endlini encane**	**Imisebenzi yekilasi eholwa uthisha nokulalela izindaba**	**Isikhathi sokuphumula**	**Isikhathi sokuhamba**

Isonto 1 Ukujwayeza	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
Amanothi: • Ukuthulwa kolwazi kuncike esikhathini esibekiwe ohlelweni losuku. • Uhlelo losuku ungalushintsha luvumelane nesimo , isibonelo, isikhathi sokuya endlini encane singashintshwa sibekwe kwesinye isikhathi kuya ngesimo sesikole. • Khombisa wonke amashadi ohlelo losuku uma sebekhonjisiwe abafundi. • Uhlu lwamanothi achazayo awabhaliwe ngokulandelana kwemisebenzi yosuku , kodwa ngokwengxenye yolwazi.Ngakhoke kufanele unqume ilanga ozokwenza ngalo umsebenzi othini. • Kwamanye amasonto kunemisebenzi engaphezulu kwemihlanu.Uhlelo belenzelwe ukuthi ube nemisebenzi eminingi ongakhetha kuyo. Akusho ukuthi kufanele uyenze yonke lemisebenzi efakiwe.			
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• Thula uhlelo lokuya endlini encane (sebenzisa izinombolo ezisho isikhundla ukutshengisa ukulandelana ,indawo noma isikhundla) - Fundisa ulwazi lokulandelana ohlelweni lokuya endlini encane,isib izinombolo ezimele isikhundla (qala usebenzise indlu encane, geza izandla, vala umpompi bese usula izandla njll). - Thula ulwazi lwezinimbolo ezimele isikhundla, njengokuthi uLinda owokuqala, Jabu owesibili njalonjalo.	Insipho, indwangu yokugeza, indlu encane amanzi	Emva kokuthula uhlelo lokuya endlini encne seluke lwenziwa, alwenziwe ngendlela efanele zonke izinsuku.

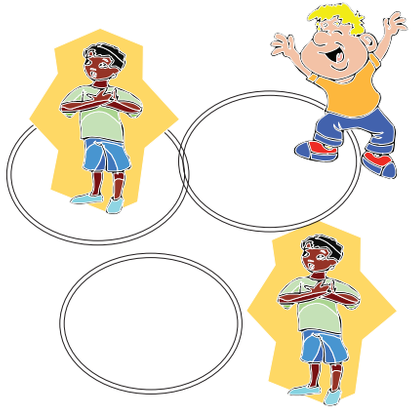
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Ukujwayeza</th><th colspan="3">Izikhathi Zokufunda Eziphakanyisiwe:
Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)</th></tr>
<tr><th>Isihloko</th><th>Amanothi Acacisayo</th><th>Izinsiza kufundisa ezinconyiwe</th><th>Isikhathi Esilinganisiwe</th></tr>
<tr>
<td>3.2
Izinto ezinhlangothi ntathu (3-D)</td>
<td>• Thula ishadi lokuqoqa:
- Enza amaqoqo amancane abafundi.
- Gqugquzela ukubekwa kwezinto ngendlela efanele enobunono.
Hlukanisa abafundi balingane izindawo eziyisishiyagalombili ezifuna ukuqoqwa. Iqembu ngalinye aliqoqe indawo ethile ngosuku bese beya kwenye ngesonto elilandelayo.
Chaza , uhlele bese uqhathanisa izinto ezinhlangothi ntathu (3-D) ngoko:
• ubungako
• imibala
• izinto eziginqikayo
• izinto ezishibilikayo</td>
<td>Ishadi lokuqoqa
<table>
<tr><td></td><td>Geza izitsha zopende namabhulashi</td><td></td></tr>
<tr><td></td><td>Qoqa ikhona lezincwadi</td><td></td></tr>
<tr><td></td><td>Qoqa amabhuloki</td><td></td></tr>
<tr><td></td><td>Shanela phansi</td><td></td></tr>
<tr><td></td><td>Qoqa indawo yokudla izindlu</td><td></td></tr>
<tr><td></td><td>Qoqa amaphazili</td><td></td></tr>
<tr><td></td><td>Qoqa amatafula okudweba nokupenda</td><td></td></tr>
<tr><td></td><td>Sula amatafuta ahlanzeke</td><td></td></tr>
</table>
</td>
<td>Emva kokuba uhlelo lokuqoqa seluthuliwe, kufanele lwenziwe zonke izinsuku.</td>
</tr>
</table>

Isonto 1 **Ukujwayeza**	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• Thula ishadi labasizi nendlela okukhishwa ngayo ukudla **Qagela bese ubala izinto ezizothuthikisa ulwazi lwezinombolo ngoku;** - Sebenzisa ishadi labasizi, lisiza ukukhombisa abasizi bosuku ukuze basize etafuleni ngesikhathi sokudla. - Izindilinga ezinhlanu eziseshadini labasizi zimele amaqoqo amahlanu abafundi, njengokuthi kunamaqoqo anikwe amagama ngemibala: elibomvu, eliluhlazaokwesibhakabhaka, eliphuzi, elisawolintshi neliluhlaza njengotshani, ungasebenzisa amagama ezithelo, ezilwane, izithuthi nokunye. - Ingane ngayinye inikwa uphawu olufakwa ngaphakathi kwe kwendilinga yeqembu noma iqoqo. - Ngokuphendula umcibisholo osuka phakathi nendawo nesiyingi ukhombe lowo ozoba omholi weqembu. Ubuholi buyajikeleza zonke izinsuku ukuze bonke abafundi bathole ithuba lokuba abaholi. - Umholi weqembu ubala abafundi nezitsha zokudla kuye ngesibalo sabafundi abakuleloqembu ngalelolanga (okukodwa nokukodwa okuhambisanayo).	**Ishadi labasizi**  	Uma ishadi labasizi sethuliwe, ukudla kuyonikwa ngalendlela zonke izinsuku.
3.3 izimo ezinhlangothi mbili (2-D) Okukodwa nokukoswa okuhambisanayo Igama abizwa ngalo ekilasini	**Bona, khomba, biza ngegama izimo ezinhlangothi mbili noma izithombe ezise kilasini** - **Uphawu lomfundi** • **Vumela umfundi ngamunye azikhethele elakhe uphawu.** - Lungiselela umbukiso wemidwebo onophawu lomfundi ngamunye l (ungasebenzisa isithombe sakhe umfundi). - Namathisela uphawu lomfundi ekhabetheni lakhe. - Umfundi akakhombe ikhabethe lakhe ngokubona uphawu. - Faka uphawu negama ezimpahleni zomfundi.. - Umfundi makakhombe olwakhe uphawu kanye nalololomngane wakhe ngokudlala umdlalo obagqugquzela ukukhomba amakhadi ezimpawu ezihlukene. Isibonelo: Abafundi benza isikokela uthisha eendlale zonke izimpawu bese bekhomba izimpawu zabo.. - Izithombe ezincane zabafundi zingasetshenziswa njengezimpawu, uma zikhona. - **Igama lekilasi** • **Gqugquzela ukuthi abafundi bazi ukuthi Bangamalunga eqembu elikhulu lekilasi ngokunika igama lekilasi ,njengokuthi "Onodoli/ izimoto".** Abafundi kufanele balazi igama likathisha.	Amakhadi anophawu lomfundi ngamunye. Akha izithombe zalolu phawu lo mfundi ngamunye. Amakhabethe, amabhokisi , nasemawukwini okugaxa izinto zakhe. Ilebuli leBanga R Isithombe segama lekilasi sasemnyango Ilebuli elinegama likathisha nesibongo	Ngesikhathi abafundi befika ngosuku lokuqala

Isonto 1 Ukujwayeza	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
Amanothi: • Khombisa uphawu noma isithombe somfundi ezinyangeni ezintathu zokuqala zonyaka. • Khombisa uphawu noma isithombe somfundi negama ezinyangeni ezintathu ezilandelayo. • Khombisa igama lo mfundi kwilebuli ezinyangeni eziyisithupha zokugcina zonyaka. • Ilebuli lekilasi , ligcine lisemnyango unyaka wonke. • Gcina ilebuli elinegama likathisha. • Gcina ilebuli lekilasi leBanga R			

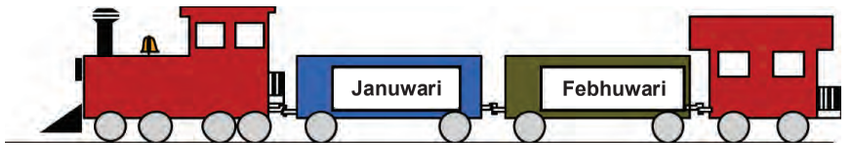
Isonto 2 Ukuzijwayeza	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	**Qagela bese ubala izinto zansuku zonke ngokuyikho** **Ukubala kwansuku zonke** • Ukubala sakuhuba kusuka ku-1- 5 • Cula amaculo ezinombolo nemilolozelo Noma abafundi befika bengazi ngolwazi lwezinombolo kwi Banga R kufanele bagqugquzelweukucula amaculo nemilolozelo ezinombolo babuye babale sakuhuba zonke izinsuku.	Amaculo nemilolozelo yezinombolo	Nsuku zonke

Isonto 2 Ukuzijwayeza	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	**Qhathanisa ukuthi iliphi kulamaqoqo amabili elikhulu nelincane** **Thula ulwazi lokukhulu nokuncane** **Ukusebenzisa umzimba** - Abafundi bathola ulwazi lokukhulu nokuncane ngokusebenzisa imizimba yabo bazenze babe bancane bese bezinweba bazenze babebakhulu. - Abafundi abaqhathanise izandla zabo babone ukuthi ubani onesandla esikhulu, ubani futhi onesandla esincane. - Qhathanisa isandlda sikathisha nesomfundi - Qhathanisa ingalo kathisha neyomfundi. **Chaza, uhlele bese uqhathanisa izinto ezinhlangothi ntathu (3-D) nezimo ezinhlangothi mbili (2-D) ngobungako bazo** **Ukusebenzisa izinto ezi 3-D** - Bakha amabhola amabhola obumba amakhulu namancane - Thola izinto ezincane nezinkulu ekilasini. Faka uphawu olubomvu kulezo zinto ezinkulu bese kuthi ezincane uzifake uphawu oluphuzi. Khuluma ngokwehlukana kwezinto ngobukhulu. - Hlela izinto ngobukhulu nobuncane bazo. **Sebenzisa imifanekiso noma izithombe ezi 2-D:** Sebenzisa ulwazi olusho okukhulu nokuncane ngesikhathi sokwenza izinto zobuciko: - Buka izithombe zezinto ezinkulu nezincane. Sika lezi zithombe. - Abafundi abadwebe izandla zabo ephepheni bese belisika la maphepha ezandla. Thatha iphepha lesandla elilodwa ulibeke phezulu kwelinye. Buka ukuthi ubani onesandla esikhulu kunomunye. - Hlukanisa iphepha ka -2. - Namathisela zonke izinto ezincane kwingxeye eyodwa yephepha, bese unamathisela izinto ezinkulu kule enye ignxenye yephepha.	Abafundi Ubumba lokudlala Izinto ezinkulu nezincane amabhuku, amaphepha , izikhangiso, izikelo Iphepha eliyi A3, amakhirayoni.	Usuku olu-1

Isonto 2 **Ukuzijwayeza**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento.**	**Chaza eyodwa noma ezimbalwa izinto ezingonhlangothi ntathu uma uziqhathanisa enye kwenye ngaphakathi nangaphandle** **Ukusebenzaisa umzimba** - Nika umfundi ngamunye ihula huphu.Uthisha uzobabonisa abafundi ngokudlala ebe esho amagama athi “phakathi phandle”. Kufanele bagxume bangene phakathi babuye bagxume baphume ngokomyalelo kathisha. - Ima ngomlenze owodwa ngaphakathi kwihula hupha kuthi omunye umlenze ungaphandle kwehula hupha. - Thatha ibhokisi , abafundi abagxume bangene phakathi baphinde bagxume baphume. Abafundi abasho ukuthi uphakathi noma ungaphandle. - Gxuma ungene phakathi ethayini uphinde ugxume uphume .Lokhu kuyisifundo sokunyakazisa umzimba. - Gxuma ungene phakathi uphinde ugxume uphume kwihula huphu ube uvale amehlo. **Ukusebenzisa izinto ezi3-D** Yenza abafundi: - Babeke udoli phakathi babuye bawukhiphe embheseni. - Phosa ibhola kwihula hupha noma ethayini. - Sebenzisa ubumba ulwenze ibhola bese uyalicindezela lube isicaba, ulwenze lube isidleke senyoni. Sebenzisa ubumba ukwenza amaqanda amancane ozowafaka ubuya uwakhiphe esidlekeni ngokomyalelo kathisha. **Ukusebenzisa imifanekiso noma izithombe ezi 2-D** Yenza abafundi: - Babuke izithombe bathole ukuthi Bangazisebenzisa kanjani ukukhuluma ngokungaphakathi nokungaphandle. - Abadwebe bona bengaphakathi nalapho bengaphandle kwezinto ezithize.	**Hula huphu** 	Usuku olu-1

Isonto 2 Ukuzijwayeza	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **izinto ezinhlangothi ntathu (3-D)**	**Akha izinto ezinhlangothi ntathu usebenzisa izinto eziphathekayo** • **Bheka izindlela ezahlukene zokusebenzisa amabhuloki ngesikhathi sikudlala okukhululekile.** - Umsebenzi kathisha ukusiza ukuqhuba lomdlalo. - Ukubheka izindlela zokusiza abafundi basebenzise amabhulok i ukwenza okuvundlile njengesicaba nalokho okusuka phezulu kuya phansi (umbhoshongo). - Hlela bese ulandelanisa amabhuloki ahlukene ngokuwabeka ngokufana ngokwesimo. - Hlela bese ulandelanisa izimo ezahlukene ngokuzibeka ngobukhulu. - Hlela amabhuloki ngobukhulu; amancane namakhulu ngokuhlukana. - Umfundi ngamunye uthola amabhuloki amathathu angunxande awabeke ngezindlela ezahlukene njngokuwabeka enze ulayini, awabeke aye phezulu njalonjalo. Abafundi Bangaqhathanisa futhi bakopele kwabanye izindlela zokubeka amabhuloki. - Khuthaza abafundi bapakishe amabhuloki ngendlela ebhalwe eshalofini lawo ngokuwaqondanisa nomugqa ofanayo.	Amabhuloki awapakishwe eshalofini elikhombisa uhlobo lwawo ngasemuva. Izinsiza kufundisa azibe ziningi njenge zithombe ezincane zezimoto, zezilwane, izimpawu zomgwaqo nokunye kuhlale kukhona.	Usuku olu-1 bese ukuphinda ngesikhathi sokwenza imidlalo ekhululekile nsukuzonke

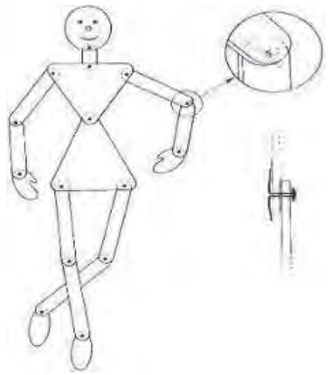
Isonto 2 **Ukuzijwayeza**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **izinto ezinhlangothi ntathu (3-D)**	**Chaza, hlela bese uqhathanisa izinto ezinhlangothi ntathu 3-D nezimo ezinhlangothi mbili 2-D ngokwemibala engaxutshiwe: obomvu, ophuzi, oluhlaza okwesibhakabhaka.** Khombisa umbala owodwa ngesikhathi. Ungakhombisi umbala kwisimo esisodwa kuphela. Usebenzise umbala nakwezinye izimo. Hlukanisa abafundi baba amaqembu ama -5. Nika iqembu elilodwainqwabayezinto ezinhlagothi ntathu nezimo ezinhlangothi mbili. - Uthisha akathule umbala ngamunye ngokuphakamisa ikhadi lombala lowo afuna abafundi bawazi ngalesosikhathi. Enza kanjalo nakuwo yonke eminye imibala. - Abafundi abahlele izinto ezi 3-D kanye nezimo ezi 2-D ngendlela abekwe ngayo amakhadi **Ukusebenzisa umzimba** - Choma izindilinga ezinemibala ehlukene (obomvu, ophuzi, oluhlaza okwesibhakabhaka) ezisikwe ephepheni eliqinile , esifubeni somfundi ngamunye. - Abafundi abazihlele ngemibala yabo ehlukene. **Ukusebenzisa izinto ezi-3-D eziphathekayo** - Uthisha ubiza abafundi abahlanu beze phambili anike ngamunye umfundi into enhlangothi ntathu ayiphathe esandleni. - Abanye abafundi bahlale emaqenjini abo nenqwaba yezinto ezinhlangothi ntathu phezulu kwetafula . - Umfundi wokuqala phambili uphakamisa into ayiphethe isib. Bhuloki axhunywayo aliluhlaza noma indilinga elogi ephuzi noma amaphazile. - Abafundi ematafuleni abo bahlela izinto ngokubona lokhu okuphakanyisiwe.	Izinto ezahlukene ezinhlangothi ntathu 3-D nezimo ezinhlangothi mbili 2-D njengezithombe, izivalo zamabhodlela,amabhuloki anombala,izimo ezinombala, amakhadi anombala: ophuzi, obomvu, oluhlaza okwesibhakabhaka. Izimo ezahlukene ezi2-D nezinto ezi3-D Izindilinga ezibomvu, eziphuzi, eziluhlaza njengesibhakabhaka zonke zilungiswe ngaphambi kwesikhathi uthisha. Qoqa izinto ezi3-D uzibeke etafuleni leqembu neqembu.	Usuku olu-1
3.3 **izimo ezinhlangothi mbili (2-D)**	**Ukusebenzisa imifanekiso noma izithombe izimo ezi2-D** - Uthisha ulungisa upende wokupenda ngomunywe. - Abafundi badweba izimo besebenzisa iminwe. - Dweba phezu kwezimo ezi2-D bese ufaka umbala	**Uhla lwezinto ozozisebenzisa uma wenza upende weminwe.** 1 inkomishi kafulawa 1 inkomishi kashukela 3 amaconsi esithako sokuphendula ukudla umbala 5 izinkomishi zamanzi abilayo (faka amanzi kancane kancane)	

Isonto 2 Ukuzijwayeza	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
4.1 **Isikhathi**	**Ukulandelanisa izehlakalo ezenzeka nsukuzonke ezimpilweni zabo** - izinyanga zonyaka - isikhathi **Thula ishadi losuku lokuzalwa** - Dweba ishadi losuku lokuzalwa elinombala, njengesitimela esinezinqola ezi 12.(inyanga ngayinye) –izinyanga zibhalwa kusukela kwesobunxele kuya kwesokudla lwezinqola.. Bhala igama lo mfundi kanye nophawu kuleyonyanga azalwa ngayo. - Bafundise ulwazi lwesikhathi ne zinyanga zonyaka ngokucula amaculo ezinyanga zonyaka ube ulokhu ukhomba amagama ezinyanga. Bafundise ulwazi lokufunda usuka kwesobunxele uya kwesokudla. - Ukuthuthukisa ulwazi lokubona izinkombandlela isib, khombisa igama lenyanga ngayinye onyakeni zibe ngumugqa osuka kwesobunxele kuya kwesokudla. - Abafundi abakhombe uphawu lwabo bazazi sakuhuba inyanga abazalwa ngayo. - Bagqugquzele ukuthi bazi iminyaka yabo. - Phinda izikhashana ukwenza lokho. **Ishadi losuku lokuzalwa** elinezinyanga eziyi 12 onyakeni alibekwe ekilasini. Umqhele noma isithombe sekhekhe losuku lokuzalwa kukhombisa usuku lokuzalwa oselwadlula. Olusazofika alunazo lzinto. *Iculo: Zakhele eyakho indlela.* *“Januwari, Febhuwari, Mashi.* *Ephireli, Meyi, Juni, Julayi.* *Agasti, Septemba, Okuthoba Novemba, Disemba.* bazolicula njalo uma kunomfundi ozalwayo ngalelo langa.  		

Amanothi:

- Usuku lokuzalwa luyisehlakalo esisemqoka , makube nesikhathi ngalolusuku lapho kuzoculwa iculo iculo yibo bonke abafundi bese beshaya ihlombe izikhathi ezilingana iminyaka yalowo ozalwa ngalilo langa.
- Umfundi ngamunye akadwebe isithombe sakhe , uthisha uzozihlanganisa ndawonke enze ibhuku lezithombe zalowo ogubha usuku lokuzalwa..
- Uthisha angenza umqhele wasekhanda abafundi bawuhlobise ngezinto ezahlukene.
- Lomsebenzi kufanele uphindaphindwe unyaka wonke uma kugujwa usuku lokuzalwa.

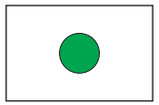
Isonto 3 **Ukuzijwayeza**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	**Qagela bese ubala ngokuyikho izinto zansuku zonke.** • Ukubala ngokuphimisa kwansuku zonke - Ukubala sakuhuba kusuka koku 1- 5 - Cula amaculo ezinombolo nemilolozelo Noma abafundi befika bengazi ngolwazi lwezinombolo kwi Banga R kufanele bagqugquzelwe ukucula amaculo nemilolozelo ezinombolo babuye babale ngokuphimisa zonke izinsuku.	Amaculo nemilolozelo yezinombolo	Nsuku zonke
	Khomba bese ubala izingxenye ezahlukene zomzimba Ukubala nsuku zonke ngokuphimisaku 1 - 5 **Ukusebenzisa umzimba (Kuxhumanise nesifundo Samakhono Empilo)** - Thuthukisa ulwazi lwezinombolo ngokubala izitho zomzimba ezahlukene. - Ngikhombise ikhala lakho bese uyalibala. Mangaki amakhala akho? - Ngikhombise izindlebe zakho bese uyazibala. zingaki izindlebe onazo? - Ngikhombise izandla zakho. Zingaki? Asizibale. Yini enye esiyibonayo ezandleni zethu? Ungayibala? Asibale isandla esisodwa imnwe yakhona: 1, 2, 3, 4, 5. - Mangaki amehlo akho? Bala izindlebe namehlo. Thinta izindlebe namehlo ngesikhathi ubala. - Hlala nomngane wakhe nibhekane bese ubala izingxenye zomzimba wakhe. Qala uthinte bese uyakubala. Uthisha uzosiza ukukwenza lokhu. - Khomba isitho somzimba lapho sihamba ngasodwa njengekhala, umlomo, isilevu **Ukusebenzisa izimo nezithombe ezi 2-D** Yenza abafundi ba: - Bazibuka esibukweni bazidwebe - badweba uhlaka lwemizimba yabo ephepheni bahlobise ngokuyikho. Badweba umugqa ohlukanisa umzimba kabili - Sika izithombe zamalunga ahlukene omzimba uwasika kumaphephabhuku noma kuzikhangisi uqedele ubuso. - Sika ubuso ephephabhukwini bese udweba wonke amalunga omzimba.	Amaphazili/imidlalo eveza abantu abahlukene nemifanekiso yemizimba Imidlalo yamakhadi Abafundi Isibuko esilingene ubude babo Iphepha eli-A4, amakhilayoni Amabhuku, izikhangisi, izikelo	Usuku olu-1

Isonto 3 Ukuzijwayeza	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.4 **Okufana nse nxazombili**	**Ukubona umugqa ohlukanisa kufane nse nxazombili kuyena** **Thuthukisa ulwazi lokuthi umzimba womuntu unezinhlangothi ezimbili** **Ukusebenzisa umzimba** Gcizelela ulwazi lohlangathi olulodwa kanye nolunye. Uthisha ukhuluma nabafundi ngengaphambili nengemuva lomzimba kanye nengenhla nengezansi lomzimba. **Yenza abafundi:** - Bazibuke esibukweni lapho bezobona wonke umzimba wabo. - Khomba izingxenye zomzimba emzimbeni yazo ezisohlangothini olulodwa zikhona nakulolu olunye uhlangothi. - Thinta izitho zomzimba njengoba kushiwo. “Thinta izinzwane, thinta izinyawo, thinta imilenze. Abafundi Bangayenza lento noma becimezile. - Thinta isitho somzimba ngesinye..“Thinta idolo ngekhala” njll. (kanye nomsebenzi ngomugqa onqamula phakathi nendawo	Abafundi  Isibuko esinobude obuphelele Uthisha angenza umuntu wezinti nezimo.	Usuku olu-1
3.2 **izinto ezinhlangothi ntathu (3-D)**	**Bona, khomba bese unika amagama amabhola** - Abafundi badlala ngamabhola bakhombise izinto aBangazenza ngebhola. Bebe bezisho lezi zinto abazenzayo. Uthisha uye oqala ingxoxo. - Khomba zonke izinto ezikwazi ukugingqika: njengokuthi ucaBanga ukuthi ibhuloki liyakwazi ukugingqika? Ake sibone.. - Gingqa zonke izinto bese uyabheka ukuthi ziyakwazi yini ukugingqika isib. Amathini agingqika ohlangothini olulodwa. - Sebenzisa ubumba wenze amabhola angakwazi ukugingqika ngesikhathi sokudlala okukhululekile.. - Ngesikhathi sesifundo sokuzivocavoca abafundi abazigingqe imizimba yabo njengamabhola.	izinto ezizindilinga njengamawolintshi, ama-aphula, amabhola, amathini.(yenza amabhola ngezinto ezilahliwe isib. Amaphepha amabhola afakwe amasokisi amadala) izinto ezizikwele isib. Amabhuloki. Uhla lokwenza inhlama yokudlala: 1 inkomishi kafulawa $\frac{1}{2}$ inkomishi kasawoti 1 inkomishi yamanzi 2 amathisipuni kawoyela wokupheka Amathonsi ambalwa okwenza umbala ekudleni **Hlanganisa konke**	Usuku olu-1

Isonto 3 **Ukuzijwayeza**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **izimo ezinhlangothi mbili (2-D)**	**Bona, khomba, bese unika igama lezimo ezinhlangothi mbili ezise kilasini nasezithombeni** - **indilinga** • **Thula indilinga** Uma uthula indilinga okokuqala, izinto ezisetshenziswayo kufanele zifanencamashi ngazozonke izindlela.(Ubukhulu, umbala, ubunjalo) **Ukusebenzisa umzimba** Uthisha udweba indilinga phansi. Abafundi abahambe phezulu komugqa wendilinga elokhu “ngizungeza indilinga”. Yenza abafundi: - Bambanani ngezandlanenze indilinga. - Enzani indilinga ngemizimba yenu. - Bahamba belandela ismo sendilinga becula “singamasotsha enkosi” - Hlala nenze indilinga bese nidlulisa into ethile isuke komunye iye komunye bebe becula “ sizofuna umuntu wethu, umuntu wethu,umuntu wethu, sizofuna umuntu wethu namhlanje”. Umfundi okophela iculo ephethe into , uyongena phakathi endilingeni.	Iculo ; “singamasotsha enkosi” Umdlalo: “sizofuna umuntu wethu, umuntu wethu, umuntu wethu, sizofuna umuntu wethu namhlanje”.	Usuku olu-1
	Ukusebenzisa izinto ezi-3-D Uthisha ukhombisa izingane ihula huphu bese echaza ukuthi isimo sayo siyindilinga. Indilinga ayinamakhona. Yenza abafundi ba: - Phatha ihula huphu e-3-D ube uhambisa uhambisa iminwe uzungeze. - Thola izinto ekilasini ezi-3-D ntathu ezinesimo esifanayo nendilinga. **Hlela bese uqhathanisa izinto ezinhlangothi ntathu ngobungako nombala** Uthisha unika abafundi izinto ezinhlangothi ntathu 3-D kanye nezimo ezinhlangothi mbili 2-D ezinobungako obuhlukene ,okukhulu nokuncane, imibala, okhlaza okwesibhakabhaka,obomvu,ophuzi. Yenza abafundi ba: - Hlela izinto ngobukhulu nobuncane. - Beka izinto ngamaqoqo emibala ehlukene.	Amahula huphu Izinto ezehlukene ezizindilinga ezi-3-D njengambhola okudlala itenisi, izimabuli amabhaloni njll. Izimo ezi-2-D njengamaplastiki ezisikwe zabazindilinga	Usuku olu-1

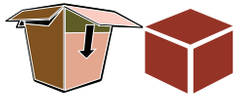
Isonto 3 Ukuzijwayeza	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
4.1 **isikhathi**	**Thula ishadi lesimo sezulu nekhalenda** a) Isikhathi b) Izinsuku zesonto c) Ukulandelana kwezehlakalo zosuku d) Ukubala - Ishadi lesimo sezulu kufanele kube elesonto, izinsuku ezi 5, kuhlelwe kusukela kwesobunxele kuya kwesokudla. Kusetshenziswa izimpawu ezahlukene zesimi sezulu. - Isimo sezulu siyenziwa **zonke izinsuku**. - Uthisha uye osiza abafundi ukusho igama losuku, ukuthi zingaki izinsuku, nokuthi iyiphi inyanga, esebenzisa amakhadiadnezithombe noma imidwebo nemibhalo. Emva kwesikhathi abafundi bazozikhethela ngokwabo amakhadi bawafake ngokufanele. - Umholi weqembu uphumela phandle abheke ukuthi isimo sezulu sinjani bese ebuya ezotshela abanye eqenjini njengokuthi liya, libalele, linamafu njalonjalo. - Uthisha ukhombisa akutholile okusemakhadini bese ubeka amakhadi esimo. - Ngokwenza njalo abafundi bafunda ngezinsuku zaphakathinesonto kanye nalezo zempelasonto. - Bafunda ngezikhayhi; namuhla, izolo, kusasa. - Abafundi bathola amathuba okubala kusuka ku 1 kuya koku 5. Bangabala izinsuku zokushisa, okwakunomoya, njalonjalo. - Beka uphawu lomfundi onosuku lokuzalwa ngalelosonto. - Beka yonke imisebenzi ezokwenziwa ngalelosonto njengokuya epaki ngikubeka isithombe sepaki.	**Ishadi lesimo sezulu** elilingene isonto. Kufanele libenagama ezinsuku zesonto ezibekwe kusukela kwesobunxele kuya kwesokudla esikhathini esiyizinyanga ezi-6 zokuqala zonyaka. Amakhadi: - Izinsuku ezi 7 zesonto - Izinombolo 1-31 - Amabama ezinyanga zonke - Unyaka njengo 2012 - Amakhadi anesimo sezulu kanje:  umoya  ilanga  imvula  amafu	Uma ishadi lesimo sezulu selithuliwe, kufanele lenziwe zonke izinsuku. Fundisa abafundi iculo lezinsuku zesonto,balicule baze balazi

Isonto 3 Ukuzijwayeza	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
Isibonelo seshadi lesimo sezulu	**Isimo sezulu** Juni 2012 iSonto: 12; uMsombuluko: 13; oLwesibili: 14; oLwesithathu: 15; oLwesine: 16; oLwesihlanu: 17; uMgqibelo: 18 		
4.1 **Isikhathi**	**Landelanisa izehlekalo ezenzekayo njalo ezimpilweni zabo.** • **Izinsuku zesonto** Uthisha ufundisa abafundi iculo noma umlolozelo ngezinsuku zesonto. Aliphindwe leliculo zonke izinsuku ngesikhathi kwenziwa isimo sezulu. *Zisikhombisa izinsuku zesonto x 3 njalo, njalo njalo umsombuluko, ulwesibili, ulwesthathu, ulwesine, ulwesihlanu uMgqibelo kanye neSonto*	Iculo:Izinsuku zesonto.Qamba iculo ngezinsuku zesonto	
	• Thula ishadi elikhombisa izikhathi zonyaka, khombisa ngomcibisholo ukuthi isiphi isikhathi sonyaka: - Isiphi isikhathi sonyaka esikuso njengamanje? - Isiphi isikhathi sonyaka esisanda kudlula? - Isiphi isikhathi sonyaka esizayo? - Beka isithombe esikhombisa isikhathi sonyaka kanye nezinyanga ezihambisana nalesosikhathi njengo Januwari - Mashi ihambisane nesithombe sasehlobo.	Amakhadi amane anesithombe eskhombisa isikhathi sonyaka ngasinye. **Izikhathi zonyaka**  Ihlobo Ikwindla Intwasahlobo Ubusika	Shintsha uma izikhathi zonyaka zishintsha
Amanothi: Ulwazi olusha kufanele lwethulwe ngokulandela lezizindlela: Ukusebenzisa umzimba (ukufunda usebenzisa umzimba nemizwa) Ukusebenzisa izinto eziphathekayo (izinto ezingonhlangothi ntathu) Ukusebenzisa imidwebo, izithombe amakhadi (izimi ezingonhlangothi mbili).			

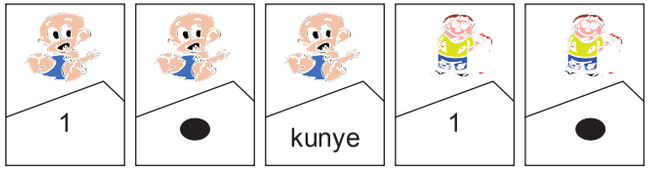
Isonto 4 Qala ukwethula izinombolo	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Ukubala izinto**	**Khomba bese uchaza izinombolo** **Thula okuchazwa inombolo 1** Ukubala ngokokusakuhuba kwansukuzonke kusuka kuoku 1-5 **Ukusebenzisa umzimba** Yenza abafundi: - Khomba izitho zomzimba njengekhala elilodwa. - Vuma sakuhuba kanye, shaya ngonyawo kanye, gxuma kanye nokunye. - Phakamisa umunwe owodwa, isandla esisodwa,unyawo olulodwa. - Enza inombolo 1 ngomzimba wakho. - Bhala inombolo 1 emoyeni/ bhala phansi. - Shaya izandla kanye	Amaculo nemilolozelo tezinombolo abafundi	Usuku olu-1
	Ukusebenzisa izinto ezi3-D Yenza abafundi: - Khomba into eyodwa ekilasini njengebhuloki. - Akha inombolo 1 ngobumba	Izinto ezisekilasini nangaphandle	
	Ukusebenzisa izimo noma izithombe ezi 2-D Yenza abafundi: - Khomba isithombe esinento eyodwa emakhadini ahlukene. - Qhathanisa ikhadi elinesithombe esinento eyodwa nalelo elinechashaza elilodwa. - Qhathanisa ikhadi elinesithombe esisodwa, nalelo elinechashaza elilodwa kanye nezinto zokubala ezifanayo, isib. Pakisha izinto ezinenombolo efana namachashazi. - Uma usuyithulile inombolo 1, beka ikhadi lalenombolo obondeni ukuze abafundi balibone zonke izinsuku.	**Isithombe sento eyodwa**  1 Into yokubala eyodwa yomfundi AAmakhadi amaningi ezithombe Amakhadi amachashaza	

Isonto 4 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
2.1 **Amaphethini okusazibalomdwebo**	• **Khomba iphethini ezintweni ezikhona eduze nasezingubeni zabafundi.** Yenza abafundi: - Abakhulume ngamaphethini abawabona ezintweni ezikhona kulendawo nalawo asezingubeni zabo. - Imaphi amaphethini anemigqa, nalawo anamabhuloki? - Ayafana yini amaphethini? Yini okufanayo futhi yini okwehlukile? - Yini eyenza iphethini? - Iphethini ukuphindaphinda –kwemigqa/amabhuloki/izimo. **Kopela bese uqhubeka nephethini** **Ukusebenzisa umzimba** Uthisha akafake abafundi abane amaribhoni aluhlaza okwesibhakabhaka kanye nabomvu ezingalweni.Wakha iphethini ngokubeka umfundi ofake iribhoni elibomvu phambili, abe esethi ofake eliluhlaza akalandele, kanjalo kanjalo kuqhubeka iphethini.	   Amaribhoni abomvu naluhla okwesibhakabhaka	Usuku olu-1
	Ukusebenzisa izinto ezi-3-D - Uthisha wakha iphethini ngezivalo zamabhodlela ezintahtu eziluhlaza okwesibhakabhaka nezintathu ezibomvu. - Abafundi abenze iphethini kathisha.	Izivalo zamabhodlela ezibomvu neziluhlaza okwesibhakabhaka umfundi ngamunye	

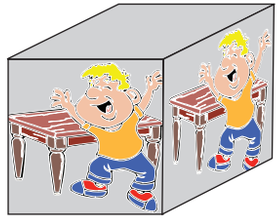
Isonto 4 Qala ukwethula izinombolo	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **Izinto ezinhlangothi ntathu (3-D)** **3.2** **Izimo ezinhlangothi mbili (2-D)**	**Bona, khomba bese usho amagama ezinto ezi 3-D kanye nezimo ezi2-D ekilasini nasezithombeni** **Thuthukisa ulwazi lokuhlukanisa phakathi kwezinto “ezisobala” nezinto “ezizungezile”** **Ukusebenzisa izinto ezi3-D** Uthisha ubeka izinto ezahlukene ekilasini kanye nangaphandle enkundleni yokudlala. Yenza abafundi: - Khombisa izinto ezahlukene ekilasini njengezinto zokhuni, izinto ezibomvu, ezepulasitiki nokunye. - Bheka izinto ezithile ekilasini njengomlayelo kathisha njengokuthi, ibhola elisebhokisini lamabhuloki, imoto esekhabetheni, ipensela elisethinini - Funa izinto ezifanayo njengezinkinobho eziyindilinga phakathi kwezinkinobho eziyizikwele nokunye. - Hela izinto ngokwakhiwa kwazo njengobungako, umbala, isimo. - Dlala umdlalo wokuqagela:” Ngibona ngamehlo ami into eyindilinga…....” - Funa into ethile kulendawo okuyo njengokulayelwa uthisha, njengokuthi iribhoni elisesihlahleni ,isilwane esihlahleni - Ekhaya kufanele abafundi bathunywe ukuqoqa izipuni, izimfoloko nokunye.	Izinto ezahlukene ekilasini nangaphandle	Usuku olu-1
	Ukusebenzisa imifanekiso noma izithombe izimo ezi 2-D Khombisa abafundi isithombe bese ubuza imibuzo ephathelene naso Isibonelo: - Intombazane iphetheni esandleni? - Bangaki abntu abasesikebheni? - Ukwakhiwa kwamaphazili namakhadi namakhadi anezithombe kuyasiza ukufundisa abafundi ukuhlukanisa phakathi kwezinto ezisobala nezizungezile.	Isithombe esikhulu sokuxoxa (iphosta) **Amaphazili** 	

Isonto 4 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **izinto ezinhlangothi ntathu** **(3-D)**	**Bona,khomba bese usho igama lezinto ezi 3-D ngokubheka izimo nobungako bamabhokisi** **Ukusebenzisa umzimba** Yenza abafundi: - Ngena phakathi bese ubuye uphume ebhokisini elikhulu. - Bheka ingaphakathi lebhokisi bese niyaxoxa njengokuthi ibhokisi linamacala amane, linesivalo njalonjalo. - Livule ibhokisi ukuze ubone izimo zonke ezikhona. **Ukusebenzisa izinto ezi3-D** - Sebenzisa amabhokisi ukwakha izinti ezithile njengendlu, igaraji nokunye. - Nika abafundi izinto ezahlukene njengezinkinobho izivalo zamabhodlela nokunye. Yenza abafundi: - Hlela izinto zibe ngamaqoqo ezinto ezifanayo. - Bheka ukuthi yini umehluko phakathi kwezinto. - Bheka ukuthi yiziphi izinto eziyizikwele neziyindinga. - Hlela izinto ngokwemibala yazo.	 Amabhokisi ahlukene amakhulu namancane (awezitofu neziqandisi)  Amabhokisi amancane, izivalo zamabhodlela nokunye angakuthola ekhaya	Usuku olu-1

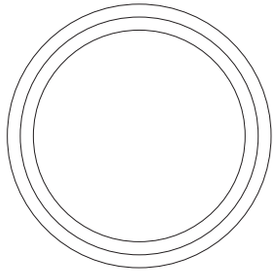
Isonto 4 Qala ukwethula izinombolo	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **izimo ezinhlagothi mbili (2-D)**	**Bona, khomba bese usho igama lezimo ezinhlangothi mbili 2 –D ekilasini nasezithombeni** - unxantathu **Thula unxantathu** Uma uthula unxantathu okokuqala izinto ezisetshenziswayo kufanele zifane nse - ukuma, umbala,. Unxantathu wakhiwe izinhlangothi eziqondile ezintathu. Yingakho kuthiwa unxantathu. **Ukusebenzisa umzimba** Yenza abafundi: - Benza isimo ngemizimba yabo njengokwenza unxantathu abafundi abathathu behlangana sakuhuba nezinyawo belele phansi. - Besebenzisa imnwe ukwenza unxantathu. - Benza unxantathu ngobumba ,ngezintambo - Bahamba phezulu komugqa kanxantathu. Ngesikhathi behamba bayasho ukuthi “Ngihamba phezulu kukanxantathu, kunye, kubili, kuthathu izinhlangothi. Zintathu izinhlangothi.Kunye, kubili, kuthathu, kuthathu amakhona. - Ukuthinta izimo ungaziboni. Sebenzisa izimi ezinkulu noma faka izimo esikhwameni. Umfundi uzothinta ezwe izimo ezahlukene. Uma esetholile ukuthi isiphi isimo uzobe esesiqhathanisa nekhadi elinomdwebo wsesimo. - Dweba unxantathu emoyeni, phansi bese begcina ukudweba ephepheni. **Chaza, hlela bese uqhathanisa izinto ezi-3-D kanye nezimo ezi-2-D** **Ukusebenzisa izinto ez-i3-D** Yenza abafundi: - Hlela amabhuloki ngokwezimo njengokuthi indilinga,unxantathu; ubukhulu njengokuthi kukhulu, kuncane; nombala njengokuthi kubomvu, kuphuzi. - Bheka onxantathu ekilasini nakulendawo okuyo.	Imidlalo yamakhadi isiza ukufundisa izimo. Iwuli ubumba Isikhwama esinezimo ezahlukene Amakhadi adwetshwe izimo Iphepha elingu A4 amakhirayoni amabhuloki izinto ezahlukene ezisekilasini nangaphandle.	Usuku olu-1

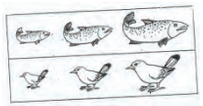
Isonto 5 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	**Chaza bese ukhomba izinombolo eziphelele** **Gcizelela ulwazi olufunde kwisonto 4 oluphathelene nenombolo 1** **Ukubala uphimisa kusukela ku** 1 kuya 5 **Ukusebenzisa umzimba** Yenza abafundi: - Umsindo owenziwa ukushaywa komzimba njengokushaya izandla kanye. - Uthisha ukhombisa ikhadi elinenombolo 1 bese abafundi bephakamisa umunwe owodwa, isandla esisodwa njalonjalo.	Amaculo ezinombolo nemilolozelo **Isithombe sento eyodwa** ● **1** kunye	Usuku olu-1
	Ukusebenzisa izinto ezi 3-D Yenza abafundi: - Thola into eyodwa ekilasini. - Bala into yokubala eyodwa.	Into eyodwa Okokubala okukodwa	
	Ukusebenzisa izimo noma izithombe ezi-2-D - Qhathanisa izithombe ezinento eyodwa kanye nekhadi elinechashaza elilodwa. - Qhathanisa izithombe ezinento eyodwa nekhadi elinechashaza elilodwa kanye nekhadi elinophawu lwenombolo 1 - Qhathanisa inombolo 1kanye negama lenombolo elisekhadini. - Akha iphazili unike abafundi baqhubeke.isib. 	Amakhadi anesithombe esisodwa nawanechashaza elilodwa. Amakhadi anenombolo 1 nekhadi elinegama lenombolo **Isithombe sento eyodwa** ● **1** kunye	

Isonto 5 Qala ukwethula izinombolo	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.4 **Okufana nse nxazombili**	**Gcizelela ukuthi umzimba unezinhlangothi ezimbili njengokuthi iloluhlangothi naloluya hlangothi. Nokuthi kukhona olusesandleni sokudla nolusesandleni sobunxele.** **Ukusebenzisa umzimba** Uthisha uchaza izinhlangothi ezimbili zomzimba. Yenza abafundi: - Ima ngomlenze owodwa bese ubuye ume ngomunye. - Uhyakaza uhambisana nesigqi sikakhehlekhehle uya ohlangothini lwekilasi. Uma ukhehlekhehle uthula, abafundi baya kolunye uhlangothi lwekilasi. **Ukusebenzisa izinto ezi-3-D** **Umfundi ngamunye unikwa isakana lokudlala (bean bag)**. **Yenza abafundi:** - Beka isakana lokudlala phansi eduze kwabo. - Susa isakana lokudlala uliyise kolunye uhlangothi usebenzisa izinzwane noma isandla. - Beka isakana lokudlala phansi eduze kohlangothi olulodwa lwabafundi bese kuthi kamuva abekwe kolunye uhlangothi. - Gcizelela lolulwazi ngokuthi abafundi badwebe umvemvana. (Goqa iphepha phakathi nendawo.Consisela amaconsi ambalwa kapende ohlukene emgqeni lapho kuhlukana khona iphepha. cindezela ingxenye yephepha kwenye. Livule bese uyabuka.–uzobona izingxenye ezimbili ezifanayo. **Uvemvane lunezinhlangothi ezimbili ezifana nse**	Ukhehlekhehle angenziwa ekhaya, kusetshenziswa isitsha esincane esinesivalo, safakwa amatshe amancane. Isakana lokudlala	Usuku olu-1
3.2 1 **Izinto ezinhlangothi ntathu (3-D)**	**Bona, ukhombe bese ubiza igama lezinto ezi-3-D.** **Thula, bese nibukisisa izinto ezikwazi ukugingqika** - Xoxa ngobundilinga bezinto.Faka izinti eziningi ezahlukene esikhwameni sokuzwa izimo ‘feely Bag’. Abafundi bakhipha into ngayinye bese bechaza ubundilinga bayo. - Abafundi bayatshengisa ukuthi izinto ezahlukene zigingqika kanjani.	Isikhwama esifakwe amabhola angalingani ,izimabula, amathini eziphuzo, izivalo zamabhodlela	Usuku olu-1

Isonto 5 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	**Isikhundla sezinto ezimbili noma ngaphezulu kuqhathaniswa nomfundi** - ngaphambili / ngemuva **Ukusebenzisa umzimba:** Uthisha ukhetha abafundi ababili . - Ubeka izihlalo ezimbili phambili kwekilasi. - Abafundi ababili bazokhombisa ulwazi lokuba phambili nokuba ngemuva, isib. o Sipho ima phambili kwesitulo o Celiwe ima ngemuva kwesitulo - Uthisha uphakamisa ikhadi, bese abafundi benza iminyakazo besebenzisa izitulo zabo. - Lokhu kungenziwa ngokusebenzisa abafundi abathathu. o U-Awande ume ngemuva kuka Sipho, kodwa uCeliwe umi ngaphambili kuka Awande. - Uthisha unika abafundi idayisi elikhulu elenezithombe ezahlukene ezikhombisa “ ngaphambili nangemumva” ezinhlangothini zonke..isib. onezinwele ezinde ume phambili, ogqoke ibhulukwe ume ngemuva; uhleli ngemumva komunye njll. - Abafundi bazodlala umdlalo wedayisi emaqenjini abo ngokuphosa idayisi bese benza lokhu okukhonjiswe esithombeni esivelile.	Izihlalo Abafundi Amakhadi anezithombe ezikhombisa ungaphambili kanye nongemuva.  	Usuku olu-1

Isonto 5 Qala ukwethula izinombolo	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **izinto ezinhlangothi ntathu (3-D)**	**Qhathanisa ezimbili ezinikeziwe ezi: enkulu nencane** • **Gcizelela ulwazi luka kukhulu kuna no kuncane kuna** **Ukusebenzisa umzimba** Yenza abafundi: - Benza imizimba yabo ibe mikhulu ngokulula izingalo zifike ngaphezulu kwekhanda. - Benza imizimba yabo ibe mincane ngokugobisa bagozigoqe. - Bathole ukuthi inkulu yini inja kunegundane **Ukusebenzisa izinto ezi-3-D** Beka izinto zibembili ukuze uziqhathanise. - Qhathanisa ubukhulu bezinto ezifanayo njenga mabhuloki, amatafula, amapuleti, izihlalo nokunye, bese uyasho ukuthi iziphi izinto ezinkulu noma ezincane/ ezinkulu; ezinkudlwana/ ezincanyana; ezinkulu kakhulu/ ezincane kakhulu.. - Ukwakha izakhiwo ngamabhuloki bese abafundi beqhathanisa ukuthi esabani isakhiwo esikhulu kunazozonke, naleso esincane kunazozonke. **Ukusebenzisa izimo noma izithombe ezi-2-D** - Qhathanisa izithombe ezichaza ulwazi lwezinto ezinkulu nezincane kanye nezinkudlwana nezincanyana. - Sebenzisa ulwazi lokukhulu nokuncane ngesikhathi sobuciko bokwenza.	Isithombe segundane nenja (isithombe senja sibe sikhulu kunesegundane) Izinto ezisekilasini njengamabhuloki, amabhola, amapuleti ,izinkinobho, ubuhlalu, izinti, amathini ,izivalo zamabhodlela nokunye. Izithombe ezichaza okukhulu nokuncane.	Usuku olu-1

Isonto 5 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **izinto ezinhlangothi ntathu (3-D)**	**Qhathanisa usho ukuthi kulokhu okubili yikuphi oku:** - **Okukhulu nokuncane** - **Okukhudlwana nokuncanyana** - **Okukhulu kakhulu nokuncane kakhulu** **Ukusebenzisa umzimba** Uthisha udweba indlinga encane esihlabathini, noma phansi. - Abafundi bahamba phezulu kwemigqa yendilinga Uthisha udweba indilinga enkulu ngaphandle kwe ndilinga encane. - Abafundi bahamba phezulu komugqa wendilinga enkulu. - Uthisha uyabuza: o Iyiphi indilinga encanekakhulu? o Iyiphi indilinga enkulu kakhulu? o Hamba phezulu kwendilinga encane. o Hamba phezulu kwendilinga enkulu. Uthisha udweba indilinga enkudlwana ngaphandle kwendilinga ekhona. - Abafundi bahamba phezulu kwendilinga enkulu kunazozonke. - Uthisha ubuza imibuzo: o Iyiphi indilinga enkulu kakhulu? o Iyiphi indilinga encane kakhulu?	Indilinga enkulu nencane edwetshwe esihlabathini noma phansi 	Usuku olu-1

Isonto 5 Qala ukwethula izinombolo	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
	Ukusebenzisa izinto ezinhlangothi ntathu (3-D) Abafundi bahlela bese beqhathanisa izinto ezahlukene ngobukhulu, (kukhulu kuna; kuncane kuna) njenga: - Izinkinobho ezinkulu kwezincane - Izipuni ezinkulu kwezincane - Amabhokisi amakhulu kwamancane Lo msebenzi ungenziwa nangaphandle ngesikhathi sokudlala emanzini nasesihlabathini, lapho abafundi bekwazi ukuqhathanisa bakhulume ngezinto basho ukuthi le incanyana / inkudlwana; incane kakhulu / inkulu kakhulu. Ingafundwa ngesikhathi sekwenziwa imisebenzi yokupenda nokudweba nalapho kwenziwa isithombe esakhiwe ngezidwedwe namaphepha nokunye, lapho besebenzisa izinto ezincane nezinkulu. **Ukusebenzisa izimo noma izithombe (izimo ezinhlangothi mbili(2-D)** Yenza abafundi**:** - Badlala imidlalo yamakhadi bebe bekhomba okuncane, okukhulu nokukhulu kakhulu ezithombeni. - Ubuza imibuzo efana: Imuphi ufishi wokuqala? Noma Imuphi ufishi wokugcina? Imuphi ufishi ophakathi nendawo?  - Dlulela ezinhlamviniukuze abafundi babone ukuthi izithombe zimele amagama. Abafundi akudingekile ukuba bakwazi ukufunda izinhlamvu. 	Amabhuloki okwakha namabhola anobukhulu obungalingani Izinkinobho,izipuni, amabhokisi emithi, amabhokisi ezicathulo, amakhothini obisi, izitsha ezingenalutho zemithi, njll. 	

Isonto 6 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	**Qagela bese ubala izinto ezejwayelekile ngokuyikho** **Ukubala kwansukuzonke** - **Ngokukhuluma**: Ukubala okusakuhuba kusukela ku 1 - 5 - Ukucula amaculo ezinombolo nemilolozelo	Amaculo ezinombolo nemilolozelo	Nsukuzonnke
2.1 **Amaphethini okusazibalo mdwebo**	**Kopisha bese uqhuba iphethini usebenzisa umsindo wokushaya umzimba** **Ukusebenzisa umzimba** - Uthisha ukhombisa abafundi iphethini lokushaya umzimba bese abafundi bayayikopisha iphethini. Isibonelo: ihlombe, ihlombe, qhwaba, qhwaba, gxoba, gxoba..	Abafundi 	Usuku olu-1
	Ukusebenzisa izinto ezinhlangothi ntathu(3-D) Kopisha iphethini usebenzisa izinto: - Amaqabunga angafani - Izimo ezingafani - indilinga, indilinga, unxantathu, indilinga..... - Izinto ezingafani - iphekisi elibomvu,iphekisi eliluhlaza okwesibhakabhaka, iphekisi eliphuzi., iphekisi elibomvu.....	Izimo ezilogi Ibhodi lamaphekisi	
	Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D) Yenza abafundi: - Benza iphethini labo ngamakhadi anezithombe njengembali, iqabunga, iqabunga,imbali,..... - Bakha awabo amaphethini ngamakhadi anemibala njenga elibomvu, eliluhlaza, elibomvu,..... - Ngesikhathi sokupenda nokudweba bese benza amamaphethini ezimo besebenziisa iziponji.	Nika abafundi amakhadi ezithombe Amakhadi emibala Uthisha wenza izimo ngeziponji	

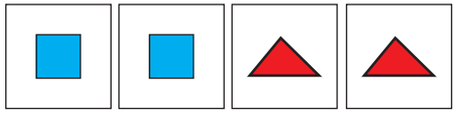
Isonto 6	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **Izimo ezinhlangothi mbili** **(2-D)**	**Bona, khomba bese usho igama lesikwele** **Thula isikwele** Uma uthula isikwele okokuqala kufanele usebenzise izinto ezifanayo ngombala, ngobukhulu, nangokwakhiwa. Isikwele sinamacala amane. **Ukusebenzisa umzimba** - Abafundi abasukume benze isikwele. - Abafundi abahambe phezulu kwentambo eyakhe isikwele. Ngesikhathi behamba bayasho bathi:‘ Ngihamba phezulu kwesikwele, icala lokuqala,icala lesibili, icala lesithathu, elesine.Wonke amacala ayalingana.” - Amaqembu abafundi akha izikwele ezincane. **Ukusebenzisa izinto ezinhlangothi ntathu (3-D)** - Uthisha ukhombisa umehluko phakathi kwendilinga nesikwele ngokuphakamisa isivalo sethini kanye nethayili. - Isivalo sizwakala siyindilinga uma usithinta ,kanti ithayili lineziphetho namakhona. **Ukusebenzisa izimo noma izithombe (izimo ezinhlangothi mbili (2-D)** - Uthisha udweba azungeze isivalo kanye nethayili. - Isivalo sikhombisa indilinga, ithayili likhombisa isikwele. - Abafundi abadwebe ngamakhilayoni bazungeze isivalo nethayili.	Abafundi Intambo Isivalo sethini Ithayili eliyisikwele Izindilinga ezahlukene kanye nezinto eziyizikwele ezahlukene. Amaphephandaba Amakhirayoni Izimo ezi2-D imidlalo yokugcizelela izimo Izinto ezi3-D amabhuloki kaLego	Usuku olu-1
	Hlela izinto ezi 3-D nemifanekiso noma izithombe (izimo ezi 2-D) Hlukanisa abafundi babe amaqoqo. Yenza abafundi: - Hlela izinto ezi-3-D nezimo ezi-2-D ozinikwe uthisha ngobukhulu nangombala - Gcizelela izimo ngokudlala imidlalo yamakhadi ngesikhathi sokudlala okukhululekile sasendlini.	Amakhadi ezimo Izinto ezinhlangothi ntathu njengamabhuloki Izimo ezinhlangoyhi mbili njengemidlalo egcizelela izimo: Yini esesikweleni?	
3.2 **izinto ezinhlangothi ntathu (3-D)**	**Bona, khomba bese usho igama lezinto ezinhlangothi ntathu ezishibilikayo.** • **Thula izinto ezishibilikayo** Nika abafundi izinto ezinhlangothi ntathu nezimo ezinhlangothi mbili, njengmabhuloki, amabhokisi, amabhola nokunye. - Abafundi abafunde ngokwenza bedlala ukuze babone ukuthi iziphi izinto ezikwazi ukushibilika nalezo ezikwazi ukugingqika. - Abafundi Bangasebenzi umshushuluzo osenkundleni yokudlala noma uthisha asebenzise itafula afake amabhuloki amabili kwicala elilodwa. - Zikhona yini izinto ezishibilika ziye phezulu? - Iziphi izinto ezishibilika ziye enzansi? - Yini eyenza lezi zinto zishibilike?	amabhuloki amabhula amabhokisi umshushuluzo noma itafula elimiswe ngamabhuloki kwicala elilodwa.	Usuku olu-1

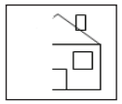
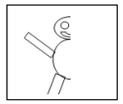
Isonto 6	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	**Chaza into eyodwa enhlangothi ntathu uqhathanisa nenye.** • **Thuthukisa ulwazi loku phezulu / ngaphansi / ngenzansi / ngaphezulu** **Ukusebenzisa umzimba** - Umfundi ngamunye akahlale esihlalweni sakhe. - Abafundi balalela imiyalelo kathisha bebe benza njengokuthi: isib. - hlala phezulu kwesihlalo,lala ngaphansi kwesihlalo. - Yima phezu kwesihlalo sakho.hlala ngaphansi kwetafula - Beka izandla phezu kwekhanda - Beka izandla ngaphansi kwemilenze - Beka isakana lokudlala ngaphansi kwekhwapha lakho. - Hlala phezu kwesakana lokudlala - Faka ihuphu ngaphansi kwamadolo akho. **Ukusebenzisa izinto ezinhlangothi ntathu(3-D)** - Abafundi ababili ababambe ingqathu, bese abanye bagaqe baphume ngaphansi. - Funa into engaphansi kwetafula **Hlela izimo noma izithombe (ezi-2-D)** - Uthisha unika abafundi izithombe eziningi ezikhombisa izinto ezingaphansi, ezingaphezulu, ezingenzansi, njengokuthi: Umuntu uhlezi phezulu kwehhashi. Ingane ilele ngaphansi kwengubo. Abafundi: - Khomba ezithombeni okuphezulu, okungaphansi, okungaphezulu.	 isihlalo somfundi ngamunye phezulu kwetafula  ngaphansi	Usuku olu-1

Isonto 6	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
4.1 **isikhathi**	**Chaza isikhathi sosuku ngokusebenzisa amagama ; imini, nobusuku/ ubumnyama, nokukhanya.** • **Thula ulwazi: emini / ebusuku; ukukhanya / ubumnyama** **Fundisa lokhu ukuhlanganise nesifundo saMakhono Empilo, Ukuqala Kolwazi** **Ukusebenzisa umzimba** - Umfundi uhlala ngaphansi kwetafula noma kwesihlalo esimbozwe ngengubo. - Enza ikilasi libemnyama ngokuthi uvale amakhethini , bese ucisha ugesi. - Abafundi bakhuluma ngabakuzwile ngesikhathi kumnyama nangenkathi sekubuya ukukhanya. - Akubekhona ithoshi ukuletha ukukhanya ngaphansi kwengubo. - Xoxa ngezinto ezenzekayo emini nasebusuku.. **Izimo noma izithombe (ezi-2-D)** - Uthisha ulungisa iphosta enesithombe selanga kanye nenyanga. Ulungisa futhi nezithombe ezikhombisa ukuthi kwenzekani emini nasebusuku. - Abafundi kufanele babeke izithombe ngaphansi kwelanga noma kwenyanga.	Izihlalo nezingubo zokulala  Ithoshi Iphosta yemini nobusuku Izithombe zezinto eznzeka emini nasebusuku 	Usuku olu-1

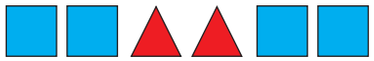
Isonto 7 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **izimo ezinhlangothi mbili (2-D)**	**Bona, Khomba bese usho izinto ezi 3-D nezimo ezi2-D** • **Thula iphazili bese unika indlela yokuthi yakhiwa kanjani.** - Xoxa ngesithombe sephazili ubhekisise umbala, abantu / izilwane, izinto, indawolapho kukhona abantu/izilwane nezinye izinto. - Khomba, bona bese uqondanisa izingcezu zephazili njenge. o Izingcezu ezisemakhoneni. o Izingcezu ezinecala elilodwa eliqondile. o Izingcezu ezingenalo icala eliqondile. o Ukubala izingcezu zephazili.  **Siyenza kanjani iphazili** - Pakisha zonke izingcezu zibheke phezulu. - Khomba izingcezu ezingamakhona uqondanise imibala nezinto ezikulezizingcezu ezisemakhoneni. - Akha amacala amane ngezingcezu ezinecala elilodwa elilodwa eliqondile. - Uma umfundi enenkinga, akakhe iphazili phezulu kwesithombe.. - Wonke amaphazili kufanele akhiwe aphele ngaphamili kokuba abekwe.	**Amaphazili ahlukene okungenani abe nezingcezu eziyi 6.**	Usuku olu-1

Isonto 7 Qala ukwethula izinombolo	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	**Chaza into eyodwa usho eyi-3-D uyihlobanise nomfundi** • **Isikhundla sezinto ezimbili noma ngaphezulu ziqhathaniswa nomfundi.** - **Phakathi / phandle** **Ukusebenzisa umzimba** - Uthisha usebenzisa ithephu yokunamathisela noma ingqathu ukwenza imigqa emibili ekilasini phansi.. - Abafundi bayasukuma bame kwicala elilodwa lekilasi. Auathisha ube esememeza ethi: “Ngena phakathi emfuleni” Bonke abafundi bagxume bangene phakathi kwalemigqa. “Ngaphandle komfula”Abafundi bagxume baphume ngaphandle kwalemigqa emibili. - Abafundi aBangalandeli imiyalelo ngendlela bayaphuma bengabe besaqhubeka nokudlala.	Umdlalo:Emfuleni Izingqathu 2	Usuku olu-1
	Ukusebenzisa izinto ezinhlangothi ntathu (3-D) Yenza abafundi: - Hlehla amagxathu ambalwa usuka kusuka kubhasikidi noma ibhakede. - Phosa isakana lokudlala ebhasikidini. **Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D)** - Abafundi badweba isithombe esikhombisa ingaphakathi nengandle.	Ibhakede noma ubhasikidi Iphepha namakhirayoni	

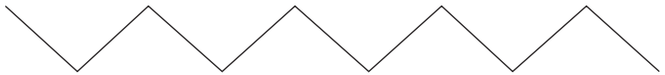
Isonto 7 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	• **Isikhundla sezinto ezimbili noma ngaphezulu ezihlobene nomfundi: Phezulu / phansi/ ezansi** **Ukusebenzisa umzimba** Abafundi abalandele imiyalelo: - Beka ibhuloki elibomvu phezulu kwekhanda lomngani wakho. - Beka ibhuloki eliphuzi ngaphansi kombhede. - Beka ibhuloki phezulu ekhanda bese ucaca emthini. - Gaqa ngaphansi kwetafula ucimezile. **Ukusebenzisa izinto ezinhlangothi ntathu(3-D)** Yenza abafundi: - Pakisha onxantathu omunye phezulu komunye. - Pakisha izikwele eziluhlaza okwesibhakabhaka esinye phezulu kwesinye - Beka isikwele esiphuzi phezulu kwendilinga ebomvu.. - Beka indilinga ephuzi nonxantathu obomvu ngaphansi kwesikwele esiluhlaza okwesibhakabhaka. **Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D)** - Uthisha ulungisa amakhadi anezithombe kanye nanezimo. - Abafundi babeka izimo phezulu noma ngaphansikwezithombe njebgokusho kukathisha. o Isibonelo:Beka isikwele esiluhlaza okwesibhakabhaka phezulu kuka bhasikidi wezithelo..	Amabhuloki Izimo Izithombe ezahlukene  Amakhadi ezimo 	Usuku olu-1

Isonto 7 Qala ukwethula izinombolo	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.4. **okufana nse nxazombili**	• **Gcizelela ulwazi lomugqa ohlukanisa umzimba wakhe kabili ulingane** **Ukusebenzisa umzimba** Yenza abafundi**:** - Bala izitho zomzimba. - Cula iculo elinomnyakazo elimayelana nomzimba. Uthisha uzokhombisa abafundi ulwazi lokuhlukanisakabili kulingane, ngokulengisa intambophambili komfundi. - Abafundi kufanele bacabange imizimba yabo ihlukaniswe kabili..  Uthisha uchaza ukuthi uhlukana kanjani umzimba ube izingxenye ezimbili. - Yonke into ehamba ngambili , itholakala kuzo zombili izingxenye zomzimba, njengamehlo, izindlebe, imilenze nokunye. - Okuhamba ngakodwa kusemgqeni ophakathi nendawo, njengekhala, umlomo. Inkaba isilinganiso ngomugqa ohlukanisa kabili Ngenhloso yokuhlukanisa nxazombili kufane nse, yenza abafundi: - Abaviliyele, baphakamise amadolo phezulu - Abaviliyele bewuqhoto njengamasosha ezigubhu - Phambanisa izingalo, phambanisa imilenze ngesikhathi uviliyela. Ungakwenza lokhu ngesikhathi wenza Ububciko Bokukhombisa esifundweni sa- Amakhono Empilo. **Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D)** - Dweba izithombe ezingaphelele ephepheni , tshela abafundi baziqedele.	Iculo: khanda , mahlombe sifuba, lukhalo…… Intambo Umzimba womfundi izithombe ezingaphelele  	Usuku olu-1

Isonto 7 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	• **Isikhundla sezinto ezimbili noma ngaphezulu sezindo ezi 3-D ziqhathaniswa nomfundi** - **Phezulu / phansi** **Ukusebenzisa umzimba** Yenza abafundi**:** - Bakhombisa, phezulu naphansi ngokunyakazisa imizimba yabo iye phezulu iye phansi njengokuyalelwa uthisha. - Bala ngesikhathi ucaca izitebhisi. - Bala ngesikhathi wehla izitebhisi ezimbili. - Caca ukhuphuke , uphinde wehle izito zokudlala. - Caca ukhuphuke uphinde wehle usebenzisa intambo, noma ilada. - Buka phezulu ubuye ubuke phansi. **Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D)** - Uthisha unika abafundi izithombe ezahlukene ezikhombisaphezulu noma phansi. o Isibonelo: umuntu uyacaca uya phezulu entabeni; umuntu ehamba ehla ebheke enzansi. Yenza abafundi**:** - Khomba ulwazi olukhuluma ngo phezulu no phansi ezithombeni	Cula iculo, ”Sikha amawolintshi” Sebenzisa izitebhisi esilkoleni Izinto zokucaca ilada Isithombe esikhombisa ukukhuphuka nokwehla.. njengezitabhisi. 	Usuku olu-1

Isonto 8 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.4 **Okufana nse nxazombili**	• **Umugqa ohlukanisa kabili ufundiswa nokubala** **Ukusebenzisa umzimba** Yenza abafundi**:** - Tshikiza bese ugxuma ulandela isigqi esithile ube ubala. - Ima ubheke omunye bese nishaya ihlombe niphambanise izandla (isandla sobunxele smfundi wokuqala sizoshaya isandla somunye umfundi esobunxele, kanjalo nesokudla). Nibe nicula iculo lezinombolo. **Ukusebenzisa izinto ezinhlangothi ntathu (3-D)** Yenza abafundi: - Phosa ibhola kumngane wakho ube ubala. - Hamba phezu phezulu kwentambo egwingcizayo ube ucula iculo. - Khahlela ibhola liye komunye. Lokhu kungenziwa ngesikhathi sesifundo Amakhono Empilo.	Abafundi Iculo lezinombolo nemilolozelo  Ibhola, intambo	Usuku olu-1
2.1 **Amaphethini okusazibalo mdwebo**	• **Ukwenza awakho amaphethini** **Ukusebenzisa umzimba** Abafundi abenze eyabo iphethini besebenzisa: - Imizimba yabo. Isibonelo: Intombazane egqoke ingubo, abafana ababili abagqoke amabhulukwe **Ukusebenzisa izinto ezinhlangothi ntathu (3-D)** - Sebenzisa izimo ezibomvu nziluhlaza okwesibhakabhaka kanje – izikwele eziluhlaza okwesibhakabhaka ezi 2 , onxande ababomvu aba 2, izikwele eziluhlaza okwesibhakabhaka eziyi 2... ... - Sebenzisa iphethini ngesikhathi somdwebo nokupenda, ngokusebenzisa upende obomvu noluhlaza okwesibhakabhaka kanye nezivalo zamabhodlela.	Izimo ezibomvu, neziluhlaza okwesibhakabhaka  Sebenzisa izivalo zamabhodlela nopende obomvu noluhlaza okwesibhakabhaka  bomvu hlaza bomvu hlaza bomvu hlaza	Usuku olu-1
	Ukusebenzisa imifanekiso noma izithombe (izimo ezinhlangothi mbili (2-D) usebenzisa imibala exubile. Yenza abafundi: - Basebenzisa izithupha ukufaka umbala ngopende emphethweni, njengoluhlaza njengotshani, osawolintshi, oluhlaza njengotshani.....emphethweni ongenhla wephepha..(umsebenzi ungenziwa ngesikhathi sokwenza umsebenzi wokudweba nokupenda **ngesikhathi Sobuciko obubonakalayo)**	Iphepha A4 Upende olhlaza njengotshani nosawolintshi noma omunye umbala okhona.	

Isonto 8 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **izinto ezinhlangothi ntathu (3-D)**	**Bona, khomba bese usho amagama ezinto ezinhlangothi ntathu (3-D)** • **Gcizelela ulwazi lwezinto ezigingqikayo** **Ukusebenzisa izinto ezinhlangothi ntathu (3-D)** Yenza abafundi: - Badlala ngamabhodlela epulasitiki, amathini, amabhola, iwolintshi nokunye. Awubheke ukuthi ayagingqika yini. Uthisha ubuza: - Iliphi ibhuloki kulawa asekhoneni elikwazi ukugingqika? - Amabhuloki angeke agingqike ngoba anamacala aqondile. - Gingqa izinto ezehlukene ubone ukuthi iziphi ezigingqikayo nezingagingqiki. - Abafundi bazobona ukuthi eziyindilinga izinto ezigingqikayo.	Amabhodlela eplastiki amabhuloki amathini, izinkomishi seplastiki, amakhandlela, amabhola nokunye.	Usuku olu-1
3.1 **Isikhundla ,indawo nokubukeka kwayo**	• **Ukuthuthukisaulwazi ngezinkomba kufanele uqale unike ulwazi - “ ngaphambili / ngemuva; phambili / emuva.** **Ukusebenzisa umzimba** Yenza abafundi: Landela izinkomba zikathisha ngokunyakaza noma ukuma endaweni ethile ekilasini. Isibonelo: - Ima ngaphambili kwekilasi. - Ima ngemuva kwekilasi.. - Iya phambili ubuye uye emuva. - Gaqa uye phambili, ubuye uye emuva. - Gxuma uye phambili ubuye emuva.	abafundi	Usuku olu-1

Isonto 8 Qala ukwethula izinombolo	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, indawo nokubukeka kwayo**	Uthisha udweba iphethini phansi usebenzisa ushoki. Njenga:  noma  Yenza abafundi: - Hamba noma gaqa phezulu kwemigqa yephethini. - Beka iphepha elibomvu emakhoneni ukukhombisa ilambu elibomvu lasemgwaqweni. Uma befika ekhoneni kufanele ukuthi libenjengomzimba ukunikeza umumuzwa wokuthi bayajika.	Dweba phansi. Iphepha elibomvu.	Usuku olu-1
	Ukusebenzisa izinto ezinhlangothi ntathu (3-D) Yenza abafundi: - Enza umgwaqo ngamabhuloki. - Dudula inqola yokudlala iye phambili ubuye uye emuva usebenzisa umgwaqo wamabhuloki. - Dudula inqola yokudlala ngokujikela ohlangothini olulodwa, bese ubuye ujikele lolunye uhlangothi lomgwaqo.	Amabhuloki okwakha	

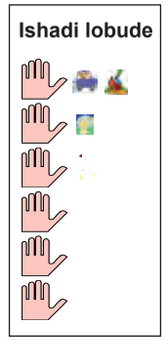
Isonto 8 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
5.1 **qoqa uhlele izinto**	• **Thula ulwazi oluqokelelwe (besebenzisa imizimba yabo), kuqokelelwa izinto ezikhona ekilasini nakuleyondawo, ngokwezimpawu ezinikiwe.** **Ukusebenzisa umzimba** Hlukanisa abafundi ngamaqembu - Eqenjini ngalinye.akusume bonke abafana benze umugqa; wonke amantombazane awasukume enze umugqa eduze kwalowo wabafana. - Abafundi ababale abfana ukuthi mangaki kanye namantombazane eqenjini ngalinye. - Qedela igrafu yamantombazane nabafana eqenjini ngalinye.	Abafundi bami emugqeni	Usuku olu-1
5.2 **Okumele izinto eziqoqiwe**	**Dweba igrafu ukutshengisa ulwazi.** **Ukusebenzisa izinto ezinhlangothi ntathu (3-D)** - Abafundi Bangasebenzisa lolu lwazi ukwenza igrafu yezinto besebenzisa amabhuloki noma izimo nokunye okumele umfundi ngamunye.	<table><tr><th>amantombazane</th><th>abafana</th></tr><tr><td>□ □ □</td><td>□ □ □</td></tr><tr><td>2</td><td>3</td></tr></table>	
5.5 **Okumele ulwazi**	**Funda bese uthula igrafu** **Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D)** - Nika abafundi iphepha elinesithombe somfana nesentombazane phezulu. - Abafundi benza igrafu besebenzisa inhlama ukwenza amabhola amancane amele abafundi njengasemsebenzini odlule - Abafundi benza amabhola azomela abafana namantombazane eqenjini labo. - Abafundi babeka isibalo samabhola esanele amantombazane nabafana eqenjini labo ngaphansi kwesithombe esifanele.	inhlama iphepha A4	

Isonto 9 Qala ukwethula izinombolo	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **Izinto ezinhlangothi ntathu (3-D)**	• **Bona bese uhlola izinto ezishelelayo nezigingqikayo** Uthisha uthatha ibhola aligqome phansi. Aliyeke ligingqike phansi. Uthisha uthatha ibhokisi enze okufanayo. Uthisha ubuza abafundi: - Iyiphi into egingqikile? - Yini ibhokisi lingagingqikanga? - Iyiphi into ekwazile ukugingqika? Uthisha ukhombisa abafundi ukuthi ibhokisi linacala amane namakhona amane, ngakhoke angeke likwazi ukugingqika kodwa ibhola alinamakhona , liyakwazi ukugingqika. - Gqugquzela abafundi ukuthi bathole izinto ekilasini ezigingqikayo nalezo ezishelelayo. - Buza abafundi ukuthi ikhona into ekwazi ukugingqika nokushelela.	 **Ibhola**  **ibhokisi**	Usuku

Isonto 9 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **izimo ezinhlangothimbili (2-D)**	**Bona, khomba bese usho igama lesimo esi-2-D ekilasini nasezithombeni** - **indilinga** **Ukusebenzisa umzimba** Yenza abafundi: - Enza indilinga usebenzisa iminwe yakho. - Enza indilinga usebenzisa izandla zakho zombili. - Hlalani phansi nenze indilinga nibe nibambene ngezandla. - Hamba phezulu kwentambo eyenziwe indilinga. - Dlala umdlalo lapho abafundi behlala benze indilinga becula icula. o Umfundi oyedwa uyaphuma endilingeni agijime ezungeza indilinga ephethe ibhola esandleni. o Umfundi ukhetha ukubeka ibhola umva komunye umfundi ohleli endilingeni. o Okhethiwe kufanele athathe ibhola agijime azame ukushaya lo mfundi wokuqala ngebhola. Ngesikhathi egijima ezungeza indilinga eyohla endaweni engenamuntu. o Uma ibhola limshaya lo ogijimayo, kufanele ayohlala phakathi endilingeni. Umdlalo uyaqhubeka. **Ukusebenzisa izinto ezinhlangothi ntathu (3-D)** Yenza abafundi: - Thola izinto eziyindilinga ekilasini. - Thola izimo ongazifanisa nendilinga. **Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D** - Uthisha usho amagama ezinto bese abafundi bekhomba lezozinto njengezinto eziyindilinga: iwolintshi, imabuli,ibhola nokunye..	Abafundi intambo Ibhola lezinyawo, elomphebezo,elegalofu,iwolinthi nokunye. Iwolintshi, i-apula, itafula, ibhola ibhuku, ibhokisi.	Usuku olu-1

Isonto 9 Qala ukwethula izinombolo	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	**Isikhundla sento eyodwa noma ezimbili ziqhathaniswa** • **Ulwazi loku "eceleni / phakathi" lufundwa ngombala.sebenzisa umzimba** **Ukusebenzisa umzimba** Uthisha ubiza abafundi abathathu. Uchaza ulwazi "**eceleni / phakathi**" ngokuhlela abafundi ngezindlela ezihlukene: - UCeliwe umi eceleni kuka Sipho. - UMelusi umi phakathi kuka Celiwe noSipho. Lokhu kungenziwa ngabanye abafundi. Uthisha unika abafundi amabhuloki anemibala ehlukene, abese ebanika imiyalelo: - Beka ibhuloki elibomvu eceleni kweliphuzi. - Beka ibhuloki eliluhlaza okwesibhakabhaka phakathi kwebhuloki elibomvu neliphuzi. **Ukusebenzisa izinto ezinhlangothi ntathu (3-D)** Sebenzisa amasakana okudlala anemibala ehlukene (abomvu, aluhlaza okwesibhakabhaka, aluhlaza njengotshani,aphuzi), anike imiyalelo abafundi: - Beka isakana lokudlala ililuhlaza okwesibhakabhaka eceleni kweliphuzi.. - Beka isakana lokudlala elibomvu phakathi kweliluhlaza okwesibhakabhaka neliphuzi. Lomsebenzi ungasebenza nasesifundweni saMakhono Empilo	Amabhuloki anemibala Amasakana okudlala anemibala	Usuku olu-1

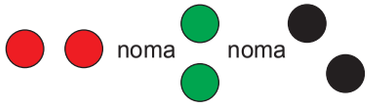
Isonto 9 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **Izinto ezinhlangothi ntathu (3-D)**	• **Ukuhlela amaqoqo amabili nangaphezulu kusukela kokuncane kakhulu kuya kokukhulu kakhulu.** **Ukusebenzisa umzimba** Nika abafundi inhlama, abenze ngayo amabhola . - Emaqenjini mabahlele amabhola kusukela kwelincane kakhulu kuya kwelikhulu kakhulu.nakwelikhulu kakhulu kuya kwelincane kakhulu. **Ukusebenzisa izinto ezinhlangothi ntathu (3-D)** - Ngamunye umfundi eqenjini akathole into eyodwa ekilasini. - Emaqenjini abahlele izinto zabo kusukela kwencane kakhulu kuya kwenkulu kakhulu. Uthisha unika iqembu ngalinye incwadi yocingo endala. Yenza abafundi: - Badabula iphepha lencwadini yocingo bese belifonyoza belenza ibhola. - Abafundi abathole ukuthi iliphi ibhola elikhulu kunawo wonke , futhi iliphi elincane kunwo wonke. **Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D** - Nika abafundi iphepha elinezithombe zezinto ezinkulu nezincane. - Abafundi bafake umbala kwezinkulu izinto bese bekokelezela ezincane.	Inhlama izinto ezisekilasini incwadi yocingo iphepha elingu a4 elinezithombe	Usuku olu-1

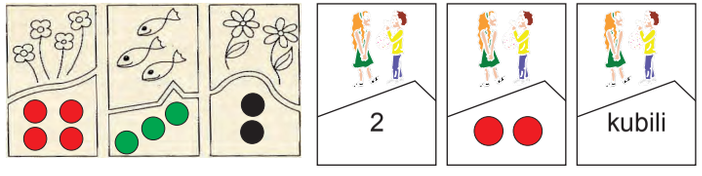
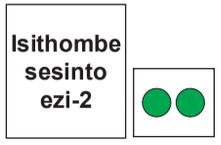
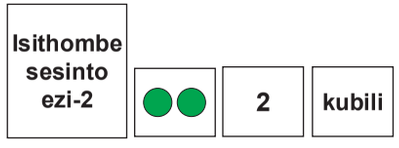
Isonto 9 **Qala ukwethula izinombolo**	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
4.2 **Ubude**	**Qhathanisa bese uhlela izinto usebenzisa ulwazi namagama afanele ukuchaza ubude.** - **Kude kakhulu / kufushane kakhulu** - **kufushane kakhulu/ Kude kakhulu** **Ukusebenzisa umzimba** - Uthisha ubiza abafundi abane, bese ethi abanye abafundi abahlele laba abne kusukela komude kuya komfushane. - Abafundi bayazihlela emaqenjini abo kusukela **komude kuya komfushane.** - Umfundi akasukume ancike ngodonga, abanye eqenjini bamkale ubude bakhe besebenzisa izandla zabo.		Usuku olu-1
	Ukusebenzisa izinto ezinhlangothi ntathu (3-D) Uthisha ubeka izinto eziningi ezahlukene etafuleni leqembu ngalinye njengamarula, amapensela, amarabha, nokunye. - **Hlela** zonke izinto **ezinde** ndawonye nezimfushane ndawonye. - Abafundi abahleleizinto kusukela kwende kunazo zonke kuya kwemfushane kunazo zonke. **Ishadi lokulinganisa ubude** - Uthisha akabe neshadi elikhombisa ubude obondeni. Akalisebenzise ukuqopha ubude babafundi ngamunye. - Sebenzisa amakhadi ezimpawu zabafundi ukhombisa ubude babo eshadini.. - Sisonke nabafundi uthisha ufika esiphethweni ukuthi uSipho mude ngezandla ezi-6 no Fana mude ngezandla ezi-5, ngoba mfishane	**amarula, amakhirayoni, amapensela, irabha** **Sipho izandla ezi 6** Ayanda izandla ezi 5 	

Isonto 10	Ukusebenzisa isontolama-40 ukubhekelela ulwazi olusele nezindawo zokufunda ezinenkinga.	
Ingxenye yokuqukethwe	**Isihloko**	**Amazinga okuhlola**
Izinombolo, izimpawu nobudlelwane bazo	**1.1** **Ukubala izinto**	Ukuqagela nokubala okusakuhuba ufike ku-5 (amaculo nemilolozelo ezinombolo akufakwe ukuthuthukisa ulwazi lwezinombolo)
		Ukubona inombolo esimweni esejwayelekile–isib. Ubudala , irejista
		Ukuqonda izinombolo ezisho isikhundla (isib, ngesikhathi sokuya endlini encane)
		Ukukhomba izithombe senombolo namakhadi amachashazi afaka inombolo okukodwa
		Ukwazi izimpawu lenombolo 1
		Ukubona amagama ezinombolo kunye
		, kubili, kuthathu, nokune
		Ukuhlukanisa phakathi kokuningi,okuncane, nokulinganayo,okuningi nokumbalwa ufike ku-4
	1.6 **Ukuxazulula izinkinga**	Ukusebenzisa izinto eziphathekayo Ukuchaza nokubeka imicabango ngamagama nangokudweba noma asebenzise izinto eziphathekayo
		Ukukhuluma uxazulula izinkinga zokuhlanganisa nokususa ufike-4
Amaphethini nokuxhumana	**2.1** **Amaphethini asazibalomdwebo**	Ukukopisha,wandise nokuzakhela amaphethini abo (izinto,izimo,nemali)
		Ukubona amaphethini endaweni ebazungezile
Isikhundla nesimo (ijiyometri)	**3.1** **Isikhundla, isimo nokubukeka kwento**	ukwazi okungaphambi kokunye/ nokungemumva
		Ukwazi okuphezu kokunye, phezu, ngaphansi,ngezansi
		Ukwazi okuphakathi nokungaphandle
		Ukwazi okungenhla nokungezansi
		Ukwazi ulwazi: phambili, emumva, ngaphambili, ngasemumva

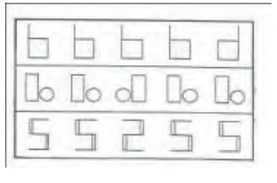
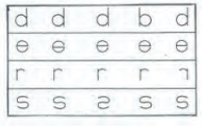
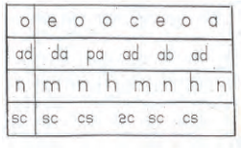
Isonto 10	Ukusebenzisa isontolama-40 ukubhekelela ulwazi olusele nezindawo zokufunda ezinenkinga.	
Ingxenye yokuqukethwe	**Isihloko**	**Amazinga okuhlola**
Isikhundla nesimo (ijiyometri)	**3.2** **Izinto ezi kanye no 3.3 nezimo ezi 2-D**	Ukubona,ukukhomba nokubiza ngegama amabhola
		Ukubona nokukhomba amagama amabhokisi
		Ukubona, nokukhomba amagama ophawu lwakhe, nawabanye abafundi negama lekilasi lakhe
		Ukwakha amaphazili anezingxenye ezi-6
		Ukukhombisa ikhono lokuhlukanisa phakathi kwezinto eziphambili nezizungezile
		Ukukhomba nokubona indilinga
		Ukukhomba nokubona unxantathu
		Ukukhomba nokubona isikwele
		Ukuqhathanisa amaqoqo amabili ezinto ozinikiwe okukhulu,nokuncane, okukhulu kakhulu nokuncane kakhulu.
		Ukuhlela izinto Ubungako –okukhulu nokuncane
		Imibala - (okubomvu, okuphuzi, okuluhlaza njengesibhakabhaka)
		Izimo – indilinga, unxantathu, nesikwele
		Izinto ezigingqikayo
		Izinto ezishushuluzayo
	3.4 **Ukuhlukanisa kabili kufane nse nxazombili**	Ukubona umugqa ohlukanisa izingxenye ezimbili kufane nse kuyena.
		Ukwazi ukuhlukanisa phakathi nendawo
Isilinganiso	**4.1** **Isikhathi**	Ukusebenzisa amagama afana nokuthi usuku, ubusuku, ukukhanya nobumnyama, ekuseni, ntambama ngokuhlwa ukuchaza isikhathi sosuku
		Ukulandelanisa izigameko zansuku zonke (Uhlelo losuku)
		Ukukhombisa ukuqaphela izinsuku zesonto, izikhathi zonyaka nesimo sezulu
		Ukwazi usuku lakhe lokuzalwa
	4.2 **Ubude**	Ukuhlukanisa phakathi kokude kakhulu,okufishane kakhulu,kude kune.. kufishane kune… (ishadi lobude)
Ukuqokelelwa kolwazi	**5.1** **Ukuqoqa nokuhlela izinto.**	Ukwazi ukuqoqa, ukuhlela, ukudweba, nokufunda ukubeka okumele ulwaziizinto ngaphansi kwesihloko esithile.
	5.2 **Ukubeka okumele izinto eziqoqiwe zahlelwa**	
	5.3 **Ukuxoxa kwethulwe umbiko ngezinto eziqoqiwe zahlelwa**	

ITHEMU 2 YEBanga R			
Isonto 11 **Ukujwayeza**	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Ukwethula okuchazwa inombolo 2** **Ukukhuluma:** Ukubala izinto zansukuzonke kufinyelele koku 2. Ukubala uye phambili ubuye uye emumva 2. Ukubala bephimisela 1-7 **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -2.	Izithombe ezimbili zezinyoni zeculo lokubala "izinyoni ezimbili, enye uPhitha ,enye uPhol"	Usuku olu-1
	Ukusebenza komzimba Yenza abafundi ba: - Biza abafundi aba-2 baye phambili. babale - Bala izitulo ezi-2, amatafula njll. - Khomba izingxenye zomzimba ezihamba ngazimbili ezinjenge amehlo, izindlebe, izandla, izitho, izinyawo, amadolo, amahlombe njll. - Ukwenza umsindo ngokushaya umzimba isib. Shaya izandla kabili, nqekuzisa ikhanda kabili, shaya phansi kabili, ugxume kabili njll. - Phakamisa iminwe emi 2, 2 izandla, 2 izinyawo.	Imizimba yabafundi	

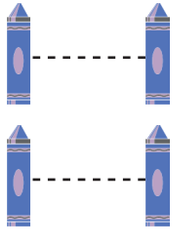
ITHEMU 2 YEBANGA R			
Isonto 11	**Izikhathi Zokufunda Eziphakanyisiwe:**		
Ukujwayeza	**Umsebenzi kathisha olungiselelwe ikilasi, uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	**Izinto eziphathekayo kusebenza izinto ezi 3-D** Yenza abafundi: - Khomba izinto ezimbili ezifanayo ekilasini isib. Izicathulo ezimbili. Amakhirayoni njll. - Thuthukisa ulwazi lokugcina izinombolo ngokwenza abafundi bapakishe izinto ezimbilli zokubala noma ezinye yiziphi izinto ngezindlela isib.  Uma bebala, inombolo yezinto ayiphazanyiswa ubungako, noma isikhundla, noma kungokohlobo olufanayo. Isib.: - Hlela 2 izinkonobho, 2 amapensela, 2 amahulahuphu, 2 abafundi njll. - Zibale ngokuhleleka okuhlukene isib.zibale ngokuzendlala, zisondelanise, emugqeni noma zipakishe	2 izinto zokubala noma 2 izinto zomfundi ngamunye	Usuku olu-1

ITHEMU 2 YEBANGA R			
Isonto 11	**Izikhathi Zokufunda Eziphakanyisiwe:**		
Ukujwayeza	**Umsebenzi kathisha olungiselelwe ikilasi, uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	• **Ukwazi uphawu lwenombolo nokubona igama lenombolo esebenzisa inombolo 2** **Izithombe ezisebenzisa izimo ezi 2-D** Yenza abafundi: - Qondanisa amakhadi ezithombe anezithombe ezimbili namakhadi amabili anamachashazi amabili kowo. - Khombisa amakhadi ezinombolo nezithombe zezinto zezinombolo ezikhehtiwe isib. Ezicathulo ezihambisanayo, amakhirayoni amabili njll. - Yenza abafundi babuke izinto ezifanayo zenombolo ezifanayo ekilasini. - Khomba ikhadi eliveziwe elinezinombolo ezehlukene zezithombe ezehlikene kulo. - Khomba ikhadi eliveziwe elinophawu lwenombolo 2. - Bona ikhadi eliveziwe negama lenombolo. - Xhumanisa uphawu lwenombolo 2 nenombolo yezinto kanye nenombolo yamachashazi. - Xhumanisa igama lenombolo nekhadi lophawu lwenombolo, inombolo yezithombe nenombolo yamachashaza - Yengeza nge khadi elinenombolo 1 bese wenza abafundi bakhombe inombolo 1 no 2 - Yenza iphazile yezinombolo bese uvumele abafundi bawaqondanise isib. 	Amakhadi ezinombolo anezinto. Izinto ekilasini nasendaweni abakuyo.  Amakhadi avezwayo anezithombe ezimbili, amachashazi, izimpawu zezinombolo, negama lenombolo. 	Usuku olu-1

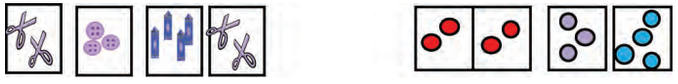
ITHEMU 2 YEBANGA R			
Isonto 11	**Izikhathi Zokufunda Eziphakanyisiwe:**		
Ukujwayeza	**Umsebenzi kathisha olungiselelwe ikilasi, uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **Izinto ezinhlangothi ntathu (3-D) kanye**	• **Chaza, hlela bese uqhathanisa izinto ezu 3-D kanye nezimo ezi 2-D ngokufanayo nokuhlukile;** **Ukufana nokuwu mehluko** - Ukusebenza komzimba - Khetha amantombazane usebenzise umlolozelo wokubala. - Abanye abafundi bakhomba ukuthi afana kanjani amantombazane? - Khetha umfana nentombazane usebenzisa umlolozelo wokubala. - Abanye abafundi bazokhomba ukuthi umfana uhluke kanjani entombazaneni. - Ngababili omunye umfundi “uzoma ngendlela ethile”ngendlela ethile omunye akopishe kufane nendlela lo “omunye ame ngayo” - isib. - Omunye umfundi uma ngonyawo nezandla ekhanda lakhe. Omunye akopishe “indlela yokuma”.. - Hlela abafundi ngokobulili babo, labo abanezicathulo, labo abanezingxabulela, nalabo abahamba ngezinyawo. - Buza labafundi abalandelayo beze phambili. o Abafana namantombazana abafake amabhulukwe, intombazane efake ingubo o Zonke izingane ezifake izicathulo, neyodwa ehamba ngezinyawo. - Buza imibuzo efana ne: “imuphi umfundi ongafani nabanye”? “Imuphi umfundi ohlukile kwabanye?”		Usuku olu-1

ITHEMU 2 YEBANGA R			
Isonto 11 **Ukujwayeza**	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi, uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **izinto ezinhlangothi ntathu (3-D) kanye** **3.3** **izimo ezinhlangothi mbili (2-D)**	• **Chaza, hlela bese uqhathanisa izinto ezu 3-D kanye nezimo ezi 2-D ngokufanayo nokuhlukile;** **Sebenzisa izinto eziphathekayo 3-D** - Abafundi ababili babhampisa ibhola: ibhola elikhulu nebhola elincane - Abanye abafundi bakhomba ukuthi amabhola afana noma ahluke ngayiphi indlela. - Umfundi oyedwa ugingqa iwolintshi, omunye ugingqa ibhola. - Abanye abafundi bakhomba ukuthi ibhola newolintshi kufana noma kuhluke ngayiphi indlela. - Abafundi babuka izicathulo zabafana nezingxabulela zamantombazane - Abanye abafundi bakhomba ukuthi izicathulo zifana noma zihluke ngayiphi indlela. - Abafundi bathola izinto ezifanayo ekilasini • **Izithombe ezisebenzisa izimo ezi 2-D** - Banikeze amakhadi emidlalo yokuqondanisa ukuthuthukisa ukufana nokuhlukana isib.   - Qhubekela phambili emakhadini asebenzisa ukucaBanga **ngokuqhubeka konyaka**. Abafundi akufanele bafunde izinhlamvu. Isib.  	yenza awakho amakhadi okuqondanisa njengalawa angezansi  Ukuqondanisa imidlalo yamakhadi	Usuku olu-1

ITHEMU 2 YEBANGA R			
Isonto 11	**Izikhathi Zokufunda Eziphakanyisiwe:**		
Ukujwayeza	**Umsebenzi kathisha olungiselelwe ikilasi, uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 Chaza,qhathanisa bese uhlela izinombolo	• **Hlela uqhathanise iqoqo lezinto eziqoqelwe ndawonye kusetshenziswa "okulinganayo" noma "okufanayo"** **Ukusebenza komzimba** Yenza abafundi**:** - thuthukisa ulwazi olusho okufanayo nokuhlukile. - Qhathanisa imino izinzwane abo. Yize kunenombolo**efanayo** kodwa kubukeka ngokwehlukile. - Qhathanisa iminwe,izinzwane namehlo. Kubukeka kwehlukile. Sinenombolo efanayo yeminwe nezinzwane ebizwa 10 kodwa sinamehlo amabili. - Qhathanisa izindlebe, izingalo, imilenze nezinyawo. Kubukeka kwehlukene kodwa **iyefana** inombolo ebizwa 2 ngakunye. - Uthisha udweba izindilinga ezimbili phansi noma kwenziwe izindilinga ezimbili phansi ngentambo. Yalela abafundi ukuba bazihlikanise ngokulinganayo endilingeni ngayinye. Bala inombolo yabafundi. Khomba amaqoqo ukuthi ayilingana futhi ayefana.		Usuku olu-1

ITHEMU 2 YEBANGA R			
Isonto 11	**Izikhathi Zokufunda Eziphakanyisiwe:**		
Ukujwayeza	**Umsebenzi kathisha olungiselelwe ikilasi, uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 Chaza,qhathanisa bese uhlela izinombolo	**Sebenzisa izinto eziphathekayo 3-D** - Thuthukisa ulwazi ngokufana nokwehluka. - Beka isethi yezimpawu zabafundi maphakathi nokhaphethi. - Nikeza umfundi ngamunye ikhadi lophawu lwakhe. Abafundi bazama ukuqondanisa izimpawu zabo nalezo ezibekwe kukhaphethi. - Beka iqoqo lezinto phezu kwetafula bese uwahlukanisa abe ngamaqoqo alinganayo (enye eyakho, enye eyami) **izibonelo:** 1. Beka izinto ezimbili zohlobo olufanayo isib. amakhirayoni, emugqen phezu kwetafula. Cela umfundi oyedwa ukuba **aqondanise** ikhirayoni ngayinye kathisha neyakhe. (umfundi udinga ukuthatha amakhirayoni amabili ukuqondanisa nenombolo yamakhirayoni kathisha. “manje umuntu ngamunye usenenombolo efanayo/elinganayo yamakhirayoni” 2. Uphinde umsebenzi ofana nalowo ebeniwenzile ngenhla ngezinto ezi 4 nezi 6 ukuze abafundi baqondisise ulwazi olufundiwe loku ”fanayo/okulinganayo” 3. Uthisha ubeka amabhuloki ama 2 abe ngumugqa etafuleni. Uthisha unika abafundi ababili ibhuloki ngamunye. Cela umfundi ukuba aqondanise elilodwa lamabhuloki akhe. (umfundi ngamunye udinga ukuthatha elinye ibhuloki lokuqondanisa nakathisha amabili) “Manje sesinamabhuloki ama 2 ngamunye. “Sinenombolo efanayo yamabhuloki”.  **Izithombe ezisebenzisa izimo ezi 2-D** - Yenza abafundi baqhathanise izithombe namakhadi avezwayo anamachashazi afanayo  - Banikeze amakhadi emidlalo ngesikhathi sokudlala okukhululekile ngaphakathi lapho abafundi bengahlukanisa okufanayo nokwehlukene.	 amabhuloki	Usuku olu-1

ITHEMU 2 YEBANGA R			
Isonto 11	**Izikhathi Zokufunda Eziphakanyisiwe:**		
Ukujwayeza	**Umsebenzi kathisha olungiselelwe ikilasi, uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Hlela bese uyaqhathanisa izinto eziqoqelwe ndawonye usebenzisa "okungaphezulu ukune"** **Ukukhuluma:** bala izinto zansukuzonke kufinyelele koku 2. **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -2. **Ukusebenza komzimba** Umfundi uyasho ukuthi iziphi izinto ezimbili eziqoqelwe ndawonye ezi: "okungaphezulu ukunoku…" Yenza abafundi: - Bala amehlo abo neminwe. Buza umbuzo: "ikuphi abanakho okungaphezulu kokunye?" - Khombisa iminwe emibili esandleni esisodwa nomunwe owodwa kwesinye isandla. "Isiphi isandla esinengaphezulu?" - Khetha abafundi aba 3 besebenzisa umlolozelo. Benze ngamaqoqo oku 2 noku 1  - Bala Bangaki abafundi eqoqweni ngalinye. Qhathanisa amaqoqo omabili bese ubuza umbuzo ofana nokuthi: "iliphi iqoqo elinabafundi elinaBangaphezulu ngoyedwa?"		Usuku olu-1

ITHEMU 2 YEBANGA R			
Isonto 11 **Ukujwayeza**	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi, uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	**Izinto eziphathekayo kusebenza izinto ezi 3-D** - Beka izikele ezi2 , 3 izinto zokubala nama 4 amakhirayoni phezu kwetafula. Bala iqoqo elilodwa lezinto.  - Buza imibuzo efana nokuthi: “ iliphi iqoqo elinezinto ezingaphezulu. “Iliphi iqoqo elinezinto eziningi kakhulu?”. “iliphi iqoqo elinokuningi ukunezikele? Iliphi iqoqo elinokungaphezu kokuthathu?” - Beka izinto ezehlukene eziphathekayo (amagobolondo, amatshe, ikhokho njll.) phezu kwetafula. Kuhlele ngamaqoqo (bonke okhokho ndawonye), bala inani eqoqweni ngalinye ukhombise ukuthi iliphi iqoqo elinokungaphezulu, okungaphansi, okulinganayo. Banikeze ithuba lokusebenza ngezinto zabo zokubala. Qala ngezinombolo ezincane. - Ngokuhlanganisa ulwazi: izitsha kufanele zibekhona ngesikhathi semidlalo yamanzi nemidlalo yesihlabathi ukunikeza amathuba okusebenzisa olwazi olufana nokungaphezulu ukune, ukungaphansi ukune nokulinganayo.	Noma iziphi izinto ekilasini	Usuku olu-1
	Izithombe ezisebenzisa izimo ezi 2-D - Yenza abafundi baqhathanise izithombe namakhadi avezwayo anamachashazi. Khomba amakhadi anenombolo engaphezulu kwenikezwe uthisha isib. - Uthisha uthi: thola ikhadi elino 2 okungaphezulu kwamachashazi asesithombeni? - Qondanisa amakhadi anezinombolo noma izinto zokubala ezilinganayo. (pakisha izinto zokubala echashazini ngalinye noma esithombeni) 	Isithombe nekhadi elivezwayo lamachashazi Izinto zokubala	

Isonto 12	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	**Ukubona nokukhomba uphawu lwenombolo negama lenombolo esebenzisa inombolo 2** **Ukukhuluma:**Bala izinto zansukuzonke kufinyelele koku 2. Bala uye phambili ubuye uye emumva kufinyelela koku 2. Ukubala ngokokusakuhuba 1-7 **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -2.	Iculo nomlolozelo wezinombolo	Usuku olu-1
	Ukusebenza komzimba Yenza abafundi**:** - Gqoma ibhola kanye, ngamanye amagama okwenzeka ngokuphinda ka 1. - Gqoma ibhola kabili, ngamanye amagama okwenzeka ngokuphinda ka 2. - Dweba inombolo okubili phansi bese abafundi behamba phezu kwenombolo okubili. - Dweba uphawu lenombolo okubili esihlabathini, emoyeni, kukhaphethi njll. - Yenza inombolo 2 ngobumba lokudlala. - Thola aBangani aba 2 abagqoke izicathulo.	Amabhola Ibumba lokudlala	
	Izinto eziphathekayo kusebenza izinto ezi 3-D Yenza abafundi**:** - Baphakamise into yokubala eyodwa. - Baphakamise izinto ezimbili zokubala.	Izinto zokubala	

Isonto 12	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	**Izithombe ezisebenzisa izimo ezi 2-D** Yenza abafundi**:** - Khomba ikhadi elivezwayo lesithombe ulixhumanise nezinto ezine nombolo efanayo - Khomba ikhadi elivezwayo elimakwe ngamachashazi amabili lesithombe ulixhumanise nezinto ezinenombolo efanayo - Khomba ikhadi elivezwayo lesithombe ulixhumanise nezinto ezine nombolo efanayo - Khomba uphawu lwenombolo 2 esithombeni esinikwe uthisha. - Kulaphi kwenye indawo lapha ekilasini obona khona inombolo 2 - Hlukanisa ikilasi libe ngamaqoqo uwanikeze ithuba lokuba adlale odomino bengamaqoqo.	Amakhadi avezwayo anezithombe ezimbili, amachashazi, izimpawu zezinombolo namagama ezinombolo **Isithombe sesinto ezi-2**  **2** **kubili** Izinto zokubala Izithombe eziveza uphawu lwenombolo 2	Usuku olu-1

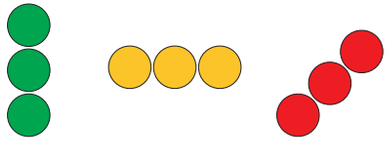
Isonto 12	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.7 **Ukuhlanganisa nokususa**	• **Izinkinga zezibalo zamagama ezixazululwa ngokuxoxa (izibalo zengxoxo)esebenzisa inombolo 2** **Ukusebenza komzimba** Izibonelo: 1. Uthisha ubiza umfundi o- 1 eze phambili. Abafundi bambale. Uthisha ubiza ubiza omunye o- 1 abese ebuza: Bangaki abafundi sebebonke?" 1 no 1 → 2. (uthisha athi: 1 no1 kwenza 2) 2. Uthisha upakisha eceleni isitulo esi 1. Ngeza 1 ngaphezulu. Zingaki izitulo ezikhona manje? 1 no 1 → 2. 3. Uthisha uphakamisa imino emi 2. Abese ethi: "bala imino yami. Uma ngifihla owodwa, mingaki iminwe oyibonayo? 2 ususe 1 → 1. 4. Uthisha uphakamisa imino emi 2. Abese ethi: "bala imino yami. Uma ngingasusi munwe, mingaki iminwe oyibonayo? 2 ususe 0→2. 5. Kunengane eyodwa ekhaya. Omunye afike ukuzodlala. Zingaki izingane ezikhona manje? 6. Kunezingane ezimbili etafuleni. Ingane ngayinye ifuna isitulo sayo. Zingaki izitulo esizidingayo? **Izinto eziphathekayo kusebenza izinto ezi 3-D** **Izibonelo**: (kusebenza izinto zokubala) 1. Uma unekhekhe elilodwa bese umama ekunika elinye ikhekhe, uzoba namakhekhe amangaki? 2. Uthisha unezinto ezimbili zokubala esandleni esisodwa kwesinye isandla akukho lutho. Zingaki izinto anazo sezizonke? 3. uBuhle unamabhola ama 2 eli 1 libhampe laya kude. Mangaki amabhola anawo asele? 4. Uma unamabhuloki ama 2 bese unikeza umngani ibhuloki eli 1, mangaki amabhuloki umuntu ngamunye anawo?	Amaculo nemilolozelo yezinombolo Izinto zokubala (uma ungenawo amakhekhe) amabhola amabhuloki	Usuku olu-1

Isonto 12	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Hlela uqhathanise izinto eziqoqelwe ndawonye ngokusebenzisa "Okungaphansi ukune"** **Ukukhuluma:**Bala izinto zansukuzonke kufinyelele koku 2. **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -2.	Amaculo nemilolozelo yezinombolo	Usuku olu-1
	Ukusebenza komzimba - (ukuhlanganisa ulwazi nobuciko bokwenza esifundweni samakhono empilo - ukudansa) - Cula iculo: "Khanda namahlombe, amadolo nezizwane" kuculwe onke amagama awaculwe kusaculwa ngomjikelo wokokuqala - Umjikelo wesibili wokucula kuculwa iculo kusale igama elilodwa lingaculwa isib. "khanda mahlombe, sifuba …., sifuba ….." - Umjikelo wesithathu cula iculo ngokushiya elinye igama isib. Khanda mahlombe, …., ….." - Uthisha ukhomba lokho abakushoyo uma besacula amagama kuze kufike lapho bengasasho lutho khona **Izinto eziphathekayo kusebenza izinto ezi 3-D** Uthisha wenza izintambo ezine ezinobuhlalu. Beka ubuhlalu obu 3 entanjeni yokuqala, ubuhlalo ubu 2 entanjeni yesibili, ubuhlalu obu 1 entanjeni yesithathu kanye nobuhlalu obu 3 entanjeni yesine. Yenza abafundi bakhombe: - Iyiphi intambo enobuhlalu obumbalwa? - Iyiphi intambo yobuhlalu enobuhlalu obu 1 ngaphezulu kwale enobu 2? - Iyiphi intambo yobuhlalu enobuhlalu obu 1 ngaphansi kwale enobu 3?	Iculo: "khanda mahlombe, sifuma lukhalo" Izinqamu zezintambo anabuhlalo obuyizombolo ezahlukene.	

Isonto 12	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	**Izithombe ezisebenzisa izimo ezi 2-D** - Yenza abafundi baqhathanise isithombe nekhadi elivezwayo lamachashazi. Khomba amakhadi anokungaphezulu ukunokunye noma okungaphansi ukunenombolo enikezwe uthisha isib. Iliphi ikhadi elinenombolo engaphezulu koku 2? - Yiliphi ikhadi elingaphansi koku 4? 	Akha isithombe kanye nesethi yamakhadi lamachashazi.	Usuku olu-1
	• **Gcizelela uqhathanise izinto ezingambili eziqoqelwe ndawonye ngokusebenzisa:** - **Okungaphezulu ukune,** - **Okungaphansi ukune(okumbalwa)** **Ukukhuluma:**Bala izinto zansukuzonke kufinyelele koku 2. Ukubala ngokokusakuhuba 1-7 **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -2.	Iculo nomlolozelo wezinombolo	Usuku olu-1
	Uthisha wenza izintambo ezimbili zobuhlalu. Faka obu 3 entanjeni yokuqala, ubuhlalo ubu 2 entanjeni yesibili, Yenza abafundi bakhombe: - Iyiphi intambo enobuhlalu obumbalwa? - Iyiphi intambo enobuhlalu obungaphezulu? - Iyiphi intambo yobuhlalu enobuhlalu obu 2 ngaphezulu? - Iyiphi intambo yobuhlalu enobuhlalu obu 3 ngaphansi 3? Ukuhlanganisa ulwazi nobuciko bokwenza lapho abafundi betshutsha izinti zokuphuza, izingcezu zezitsha ezipoqokayo, izimo ezisikiwe ezinembobo phakathi nendawo, amaqabunga njll.	Izinqamu zezintambo anabuhlalo obuyizombolo ezahlukene.	

Isonto 12	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	**Izithombe ezisebenzisa izimo ezi 2-D** Beka iqoqo lezinto phezu kwetafula uzihlukanise zibe: - Amaqoqo alinganayo (eyodwa eyami, eyodwa eyakho) - Amaqoqo angalingani (qhathanisa ukubona ukuthi iliphi iqoqo elinokungaphezulu/ okungaphansi nokuthi imaphi afanayo) - Uma kunamaqoqo amabili angalingani, yini okufanele siyenze ukuwenza alingane/ afane?		Usuku olu-1
3.2 **izinto ezinhlangothi ntathu (3-D) kanye**	• **Chaza, uhlele bese uqhathanisa izinto ezi 3-D nezimo ezi 2-D** **Izinto eziphathekayo kusebenza izinto ezi 3-D** Yenza abafundi**:** - Bahlele izinto ezinhlobonhlobo ngobungako besilinganiso - Bahlele babuye baqhathanise amabhuloki okwakha ahlukene ngobukhulu bawo (elikhulu nelincanel). - Hlela amabhuloki nfokuba nezimo ezifanayo	Okunhlobonhlobo okukhulu nokuncane ezintweni ezisekilasini isib. Ibhola, udoli, ithoyizi, imoto, amabhuloki kaLego njll.	Usuku olu-1
3.3 **izimo ezinhlangothi mbili (2-D)**	**Izithombe ezisebenzisa izimo ezi 2-D** Hlukanisa abafundi babe amaqoqo amahlanu. Nikeza iqoqo ngalinye izinhlobonhlobo zezakhiwo. - Yenza abafundi bahlele izimo ngokwe: o Umbala o Izimo (noma ngaba abafundi abazazi izimo). o ubukhulu - sebenzisa amakhadi emidlalo athuthukisa ulwazi lwemibala, ubukhulu nezimo	Amabhuloki okwakha namabhola anobukhulu obungalingani Isimo esilogi noma izimo ezinemibala ezikhona	

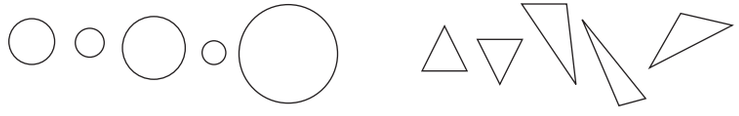
Isonto 13	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Ukwethula okuchazwa inombolo 3** **Ukukhuluma:**ukubala izinto zansukuzonke kufinyelele koku 3. Ukubala uye phambili ubuye uye emumva 3. Ukubala bephimisela 1-7 **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -3	Iculo nomlolozelo wezinombolo	Usuku olu-1
	Ukusebenza komzimba - Uthisha udlala isigubhu noma umculo. Uma umculo uma abafundi bakha amaqoqo okuthathu. - Buza abafundi ukuthi ubani onomndeni owakhiwe abantu aba 3. - Abafundi bama emugqeni; uthisha abuze ''ubani uwesithathu emugqeni?'' - Hlukanisa abafundi babe amaqoqo angu ±5 - Yenza abafundi: - Dabula amakhasi amathathu ebhukwini lefoni elidala. - Fonyoza amakhasi amathathu abe ngamabhola aqine ngokungenzeka. Ukuthuthukisa ukuqonda esokudla nesobunxele kusetshenziswa isandla okuyisona esisebenza kakhulu. Umfundi angahlala ngasesandleni esingasebenzi kakhulu. - Vula amabhola uphinde uwafonyoze. - Bala amabhola emva kokuba wonke esemfonyoziwe. - Ngesikhathi ebalwa awaphonswe kubhasikidi obekwe phakathi nendawo neqembu. - ukuhlanganisa ulwazi nobuciko bokwenza esifundweni samakhono empilo - ukudansa)	Abafundi uqobo. Izinto zokubala Amabhuku efoni amadala ubhaskidi	

Isonto 13	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Izinto eziphathekayo kusebenza izinto ezi 3-D** Yenza abafundi**:** - Khomba izinto ezi-3 ekilasini. - Phakamisa iminwe emi-3 . - Beka izinto ezi 3 phezu kwetafula. Umfundi ngamunye uza etafuleni ukubala into ngayinye. Umfundi uthinta into beqhubeka nokubala.uphinde ngezinye izinto. - Thuthukisa ukuqaphela ukugcinwa kwezinombolo ngokuvumela abafundi ukupakisha izinto zokubala ezintathu noma ezinye izinto ngezindlela ezahlukene isib.  Uma kubalwa, inombolo yezinto aziphazanyiswa ubukhulu, noma indawo, okanye kuyinhlobo efanayo. Isib: - Hlela izinkinobho ezi 3, 3 amapensela, 3 amahulahuphu, 3 abafundi njll. - Zibala ngokuhleleka okwehlukene isib.Zibale ngokuzendlala, ngozisondeza ndawonye, emugqeni noma zipakishiwe	Izinto zokubala	Usuku olu-1
	Izithombe ezisebenzisa izimo ezi 2-D - Khombisa isithombe “sebhodwe lensimbi elinemilenze emithathu”. - Bala imilenze. - Yenza abafundi bacabange nganoma yini enye into enemilenze emithathu. - Khombisa isithombe esinezinto ezi 3. Abafundi babala izinto ezintathu ezihambisanayo nenombolo yezinto zokubala. - Enza okufanayo nekhadi lamachashazi. - Abafundi baqondanisa ikhadi lamachashazi namakhadi ezithombe.	Amakhadi avezwayo anezithombe Amakhadi avezwayo anamachashazi Izinto zokubala **Isithombe Sezinto ezi 3** 	

Isonto 13	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	• **Ukwazi izimpawu zezinombolo nokubona amagama ezinombolo efaka oku 3** **Ukukhuluma:**ukubala izinto zansukuzonke kufinyelele koku 3. Ukubala uye phambili ubuye uye emumva 3. Ukubala bephimisela 1-7 **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ..IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -3 **Izinto eziphathekayo kusebenza izinto ezi 3-D** - Nikeza umfundi ngamunye amakhiyubhi axhunywayo ama 3 - Uthisha ukhombisa ichashazi, isithombe, ikhadi lophawu nenombolo afaka izinombolo 1 kuya 3. - Abafundi bafunda inombolo eshiwo babeke inombolo efanayo yamakhiyubhi afanayo eminweni yabo.	Amakhiyubhi axhunywayo Amakhadi ezinombolo afaka 1 kuya 3 **Isithombe Sezinto ezi 3**  **3** **okuthathu**	Usuku olu-1
	Izithombe ezisebenzisa izimo ezi 2-D Yenza abafundi**:** - Bakhombe amakhadi avezwayo anezithombe ezinamanani ehlukile. - Khomba ikhadi elivezwayo elinophawu lwenombolo 3. - Hlanganisa uphawu lwenombolo nenomboloyezinto namachashazi. - Hlanganisa igama lenombolo nekhadi nophawu lwenombolo nenombolo yamachashazi - Nikeza umfuni ngamunye ikhadi lenombolo elifaka izinombolo 1 kuya 3. Uthisha uphakamisa ikhadi lamachashazi noma lesithombe. Uthisha uphakamisa yekhadi lenombolo eqondanayo.	Amakhadi avezwayo ehlukene anezinombolo ezehlukene ekhadini ngalinye. Ikhadi elivezwayo elinophawu lwenombolo 3 Ikhadi lenombolo elinamachashazi ama 3 **Isithombe sezinto ezi 3**  **3** **Okuthathu**	

Isonto 13	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.7 **Ukuhlanganisa nokususa**	• **Xazulula izinkinga ezishiwo ngokuxoxa zokuhlanganisa nokususaezinezixaxululo ezifinyelela koku 3** **Ukukhuluma:**ukubala izinto zansukuzonke kufinyelele koku 3. Ukubala uye phambili ubuye uye emumva ngoku 3. **Ukusebenza komzimba** **Izibonelo:** 1. Uthisha ubiza abafundi aba-2 beze phambili. Abafundi babababale. Uthisha ubiza omunye o- 1 abese ebuza: Bangaki abafundi sebebonke?" 2no 1 → 3. (uthisha athi: 2no1 kwenza3) 2. Uthisha upakisha eceleni izitulo ezi 3.angabe esangeza lutho ngaphezulu. Zingaki izitulo ezikhona manje? 3 no 0→3 3. Uthisha ubiza abafundi aba-3 beze phambili.Babababale. Uthisha uphindisa abafundi aba 2 emuva. Bangaki abafundi abasele? 3 susa 2→1 **Izinto eziphathekayo kusebenza izinto ezi 3-D** Nikeza umfundi ngamunye izinto zokubala ezi 3. Njengoba uthisha "exoxa indaba" abafundi upakisha izinto zokubala. **Izibonelo:** 1. uTholi unamawolintshi ama 2 no Xolo umnikeza elinye eli 1.uTholi unamawolintshi amangaki manje? 2 no 1→3 (uthisha uthi: 2 no 1 kunikeza oku 3). 2. Kunenyoni e-1 ehleli egatsheni lesihlahla kwafika ezinye izinyoni ezi- 2 zahlala.Zingaki-ke izinyoni ezikhona egatsheni manje? 1 noku 2→3. **Izibonelo**: 1. Inkawu inobhanana aba 3 yase idla o-1. Bangaki obhanana esele nabo? 3 ususa 2→1. 2. Kunama apula ama 2 esihlahleni. I-apula eli 1 lawa. Mangaki ama-apula asele esihlahleni? 2 susa 1 kwenza→1.	Amaculo ezinombolo nemilolozelo. Izitulo 3 izinto zokubala umfundi ngamunye	Usuku olu-1

Isonto 13	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
2.1 **Amaphethini okusazibalo mdwebo**	• **Yakha amaphethini akho aphindindaphindayo usebenzisa izinto ezi 2-D** **Ukusebenza komzimba** Abafundi bahlala bakhe indilinga. Besho amaphethini amagama **Isibonelo:** *Inja, ikati, inja, ikati* *uBhanana,i- apula, iwolintshi, iwolintshi, i-apula, ubhanana.* *uTholi, uJabu, uNomusa, uTholi, uJabu, uNomsa* *kubomvu, kulihlaza, kuluhlaza, kubomvu, kubomvu, kuluhlaza njll.* *Waka, waka, eh, eh, waka, waka, eh, eh* **Izinto eziphathekayo kusebenza izinto ezi 3-D** Yenza abafundi**:** - Qoqa izinto ezi 3 ezifanayo ekilasini isib. amakhirayoni ama 3 - Qoqa ezinye izinto ezi 3 ezifanayo ekilasini isib.amabhuloki ama 3 kaLego - Abafundi bakha eyabo iphethini besebenzisa izinto ezimbili isib. - Ikhirayoni eyodwa,ibhuloki ka Lego, ikhirayoni eyodwa …. - Amakhirayoni amabili, ibhuloki eyodwa ka Lego, amakhirayoni amabili, ibhuloki eyodwa ka Lego ….. - Vumela abafundi ukwakha amaphethini ngezindlela ezehlukene. - Shintshana nonmngani ngezinto kuphindwe futhi obekwenziwa.	amakhirayoni okunamathiselayo nezinye izinto	Usuku olu-1

Isonto 13	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **izimo ezinhlangothi mbili (2-D)**	**Bona, ukhombe igama lesimo esi 2-D ekilasini okufaka nezithombe ezi** - **Unxantathu** • **Gcizelela ulwazi olutholakele emasontweni ama-4 ukubona, ukubona negama likanxantathu** **Ukusebenza komzimba** Dweba, noma usebenzise intambo ukwakha isiphetho sesimo esikhulu sikanxantathu Yenza abafundi**:** - bahambe bazungeze isimo babuke ukwakheka kukanxantathu. Ngesikhathi behamba abafundi mabathi: “ngihamba eduze kukanxantathu. Kunye, kubili, kuthathu izinhlangothi noma kunye, kubili, kuthathu amakhona (amachopho) - uthisha ukhomba unxantathu ukuthi “unamakhona” ama 3 nezinhlangothi ezintathu. - Dweba unxantathu emoyeni nase/noma esihlabathini - Akha unxantathu ngobumba **Izinto eziphathekayo kusebenza izinto ezi 3-D** Yenza abafundi**:** - Khumbula ubone izinto ekilasini ezinezimo ezingunxantathu. - Khumbula ubone izinto ezinezimo zemvelo ezingunxantathu. - Beka izinto ezinobukhulu obuhlukene izindilinga nonxantathu “esikhwameni sokuzwa”. Khomba unxantathu phakathi kwezinye izimo. 	Ubumba noma ubumba lokudlala Izinto ezingonxantathu ekilasini nasendaweni abakuyo Akha amakhadi akho anezindilinga ezi5 ezahlukene, onxantathu, nezikwele kuwona	Usuku olu-1

Isonto 13	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **izimo ezinhlangothi mbili (2-D)**	**Hlela izinto ezi 3-D nezimo ezi 2-D** - Hlela izinto ezahlukalhukene ngokwezimo nemibala.		Usuku olu-1
	Izithombe ezisebenzisa izimo ezi 2-D Yenza abafundi: - Bakhombe isimo esingunxantathu ezithombeni. - Dweba unxantathu ephepheni. - Kopisha unxantathu ekhadini elinikeziwe. - Dweba uzungeze zonke izindilinga ephepheni lokusebenzela. - Akha izithombe usebenzisa onxantathu ngesikhathi sobuciko obubonakalayo. - Dlala amakhadi okudlala ukusekela ukugcizelela ulwazi lwezimo.	Izithombe lapho kungakhonjwa khona onxantathu. Amakhadi okudlala ukuthuthukisa ukubona izimo njenge “yini esesikweleni” Izimo eziLogi njll.	

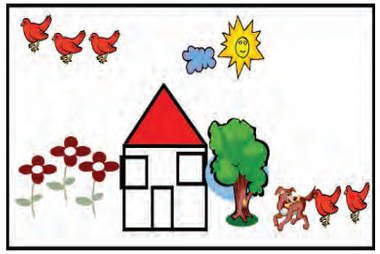
Isonto 14	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Gcizelela ulwazi olutholakele elifaka inombolo oku 3** **Ukukhuluma:**ukubala izinto zansukuzonke kufinyelele koku 3. Ukubala uye phambili ubuye uye emumva 3. Ukubala bephimisela 1-7 **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -3	Amaculo ezinombolo nemilolozelo.	Usuku olu-1
	Izinto eziphathekayo kusebenza izinto ezi 3-D Yenza abafundi**:** - Thola izinto ezi 3 ezisekilasini ezibomvu. - Yakha inombolo 3 ngobumba. - Gingqa amabhola amakhulu ama 3 obumba. - Gingqa amabhola amancane ama 3 obumba. - Thola abafundi aba 3 ekilasini abagqoke umbala ofanayo	Izinto ezibomvu. ubumba	

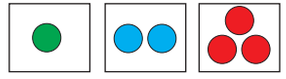
Isonto 14	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.7 **Ukuhlanganisa nokususa**	• **Xazulula izinkinga ezishiwo ngokuxoxa zokuhlanganisa nokususaezinezixaxululo ezifaka koku 3** **Ukukhuluma:**ukubala izinto zansukuzonke kufinyelele koku 3. Ukubala uye phambili ubuye uye emumva ngoku 3. **Ukusebenza komzimba** **Izibonelo:** 1. Uthisha ubiza abafundi aba 2 beze kukhaphethi abese ebiza omunye oyedwa. Bangaki abafundi uthisha ababizele kukhaphethi? Uthisha athi: 2 noku 1 kukunika 3. 2. Kunezingane ezintathu. Ingane ngayinye ifuna amakhirayoni ayo. Mangaki amakhirayoni adingekayo? 3. Izingane ezintathu zimi ndawonye. Eyodwa iyaphuma endlini. Zingaki ezisele? **Izinto eziphathekayo kusebenza izinto ezi 3-D** **Izibonelo:** 1. Uthisha ubeka izinto zokubala ezi 3 phezu kwetafula. Ususa izinto zokubala ezi 2. Zingaki izinto zokubala ezisele pheezu kwetafula? Uthisha uthi oku 3 ususa 1 kukunika 2. 2. uLindiwe unamakati ama 2 waphinda wathola elinye ikati eli 1 kuSphesihle. Mangaki amakati uLindiwe asenawo esewonke? 1 no 2→3. Uthisha uthi 1 no 2 kukunika 3. 3. Uma ikati eli 1 linomsila o 1, amakati amathathu anemisila emingaki? 1 no1no1→3	Abafundi Izinto zokubala	Usuku olu-1

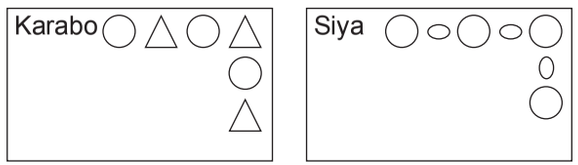
Isonto 14	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
2.1 **Amaphethini okusazibalo mdwebo**	• **Qedela iphethini elinikeziweelinezinto ezi 2** **Ukusebenza komzimba** - Yenza abafundi bakopishe iphethini yokwenza isib. Khele, khele, gxuma, gxuma, khele, khele, gxuma..... - Abafundi baqedela iphethini besebenzisa imizimba yabo isib.omunye uma eduze komunye beshintsha izandla ekhanda, izandla okalweni, izandla ekhanda, izandla okhalweni, izandla ekhanda ..... **Izinto eziphathekayo kusebenza izinto ezi 3-D** - Yenza abafundi bakopishe iphethini yezinto isib. Ubuhlalu, ubuhlalu, uthi, ubuhlalu, ubuhlalu, uthi	Inoma iziphi izinto	Usuku olu-1
	Izithombe ezisebenzisa izimo ezi 2-D - Uthisha unika abafundi izinhlobo zezithombe esezisikiwe. (Sika izithombe ngesikhathi somsebenzi wobuciko obubonakalayo) - Uthisha uqala iphethini abafundi bakopishe iphethini enikeziwe isib. Isithombe sekhofi, itiye, ushukela… - Yenza abafundi baqedele iphethini ngokudweba i: - Imbali, iqabunga, imbali..... - Indilinga eluhlaza, indilinga ebomvu, indilinga eluhlaza..... njll.	Izithombe zezikhangisi. Iphepha elingu A4 namakhirayoni	

Isonto 14	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **Izinto ezinhlangothi ntathu (3-D)**	• **Hlela bese uqhathanisa izinto ezi 3-D nezimo ezi 2-D ngokwendlela ethile** **Izinto eziphathekayo kusebenza izinto ezi 3-D** Hlukanisa abafundi amaqoqo ama 5. - uThisha uqoqa izinto ukuze iqoqo ngalinye lizozihlela okungenani ngezindlela ezethile ezimbili (kungaba nangaphezulu). - Nikeza iqoqo lezinto zezinhlobo ezimbili ezingahlelwa. Yenza abafundi**:** - Hlela izinto ngokufana nangokuhluka kwazo. **Izithombe ezisebenzisa izimo ezi 2-D** Gcina abafundi besemaqoqweni afanayo. - Qhathanisa uhlele izithombe ezehlukene eziqoqwe uthisha isib. Isib. Izithombe zezingubo ezahlukene, ukudla, ifenisha, izithuthi njll. - Yenza abafundi baqedele ishidi lokusebenzela beqondanisa izithombe ezimbili ezifanayo isib. Ibhulashi nomuthi wokuxubha, ithawula lokugeza ubuso nensipho.	Izinto ezifana ne: Izinto zokugqoka ezehlukene Izithelo ezehlukene Izilwane zoplastiki ezehlukene zasepulazini Izimo ijiyometri ezehlukene (Different geometric shapes) Mabhuloki okwakha ehlukene Amabhuloki ehlukene kaLego Izinto ezehlukene ezitholakala emvelweni ezifana namaqabunga, izinti, amatshe njll. Izinkinobho ezehlukene njll. Izivalo zamabhodlela ezinemibala eyehlukene Amakhirayoni ehlukene Qoqa izithombe emabhukwini naseziqeshini zezikhangisi. Sika unamathisele emakhadini.	Usuku olu-1

Isonto 14	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	• **Isikhundla sezinto ezimbili noma ngaphezulu ngokuxhumana nomfundi** - **Gcizelela ulwazi olufundwayo “phezu/ngaphansi” noma “ngaphezulu”** **Ukusebenza komzimba** Umfundi ngamunye uhla phezu kwesitulo. - Abafundi bakukhombisa okungaphezulu nokungaphansi ngokulandela imilayelo kathisha isib. Hlala phezu kwebhokisi, lala ngaphansi kwebhokisi noma kwetafula. - Hlala ngaphansi kwetafula. Zenze ubemncane ngokungenzeka ngaphansi kwetafula. - Ima phezu kwesitulo bese uzinweba kakhulu ngokungenzeka. - Khwela phezu kwetafula ushwibe izingalo zakho ngezindilinga ezinkulu nezincane. Qhubeka isebenzise okukhulu ukune/ nokuncane ukune. - Beka ibholuki phezu kwekhanda bese ugibela phezu kwetafula. - Khetha abafundi abahlanu usebenzisa umlolozelo wezinombolo. - Hlebela umfundi ngamunye umyalelo. o Hlala nezandla zakho ngaphansi kwemilenze o Hlala nezandla zakho ngaphansi kokhalo o Hlala nezandla zakho emhlane o Hlala nezandla zakho emahlombe o Sukuma nezandla zakho ziphambene ngaphambili Abafundi bami ngaphambili ngesikhathi abanye behlezi kukhaphethi. Buza abafundi: - Wenzani umfundi wokuqala? *(uhlezi)* - Zilaphi izandla zakhe? *(izandla zakhe zingaphansi kwemilenze)* - Phinda nabanye abafundi usebenzisa owesibili, owesithathu, nowokugcina. - Khetha iqoqo elisha ukwenza okufanayo - Khiphela abafundi phandle ubenze bakhombise ulwazi loku “phezu’, “ngaphansi”, no “okungaphezulu” ngokukhombisa ukukukhuthalela.	Abafundi Ibhokisi  **phezulu ngaphansi**	

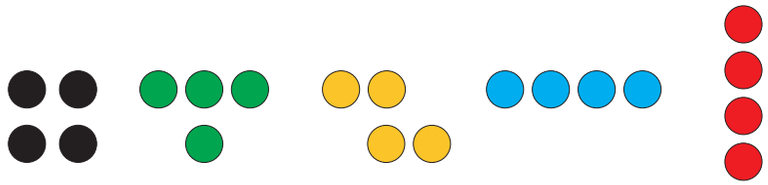
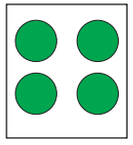
Isonto 15	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Gcizelela ulwazi olutholakele elifaka izinombolo 1,2 no 3** **Ukukhuluma**: ukubala izinto zansukuzonke kufinyelele koku 3. Ukubala uye phambili ubuye uye emumva 3. Ukubala bephimisela 1-7 **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -3	Amaculo ezinombolo nemilolozelo.	
	Ukusebenza komzimba Gqugquzela abafundi ukuthola: - Ingxenye e 1 yomzimba enyakazayo enganyakaza ukuya phezulu naphansi, ecaleni elilodwa nakwelinye ngokwalo isib.ulimi. - Izingxenye ezi 2 ezisetshenziswa uma kugxunywa isib. imilenze	Imizimba yabafundi. Ukucula nokulingisa iculo isib. 'bezintathu embhedeni kanye .....' Imilolozelo yokubala isib. "kunye kubili, faza izicathulo".	
	Izinto eziphathekayo kusebenza izinto ezi 3-D Yenza abafundi bathuthukise umqondo wenombolo: - Sebenzisa amabhuloki ama 3 ukwakha umbhoshongo - Ukuthola izinto ezi 3 ezisekilasini ezibomvu. **Izithombe ezisebenzisa izimo ezi 2-D** Uthisha udweba isithombe esilula - Uthisha ubuza imibuzo okuxhumene nenombolo yezinto ezisesithombeni isib. Ubona amafasitela amangaki njll?	Amabhuloki Izinto ezibomvu 	
1.2 **Bala uya phambili nasemumva**	• **Sebenzisa izinombolo 1, 2 kanye no-3 esimweni abasejwayele** **Ukukhuluma:** ukubala izinto zansukuzonke kufinyelele koku 3. Ukubala uye phambili ubuye uye emumva 3. **Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa".** Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -3 - Gqugquzela abafundi ukuthi bakhumbule inombolo yabo yasekhaya nekheli	Amaculo ezinombolo nemilolozelo.	Usuku olu-1

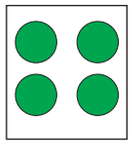
Isonto 15	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.2 **Bala uya phambili nasemumva**	**Izithombe ezisebenzisa izimo ezi 2-D** Yenza abafundi: - Bheka izithombe ezinombolo 1, 2 no 3 ebhukwini nasemaphepheni ezikhangiso uwanamathisele ephepheni.(hlanganisa nobuciko obubonakalayo) - Qondanisa inombolo yezinto nenombolo yamachashazi ekhadini elivezwayo. - Khombisa ikhadi lamachashazi. Abafundi baphosa inombolo efanayo yezikhwanyana zikabhontshisi ebhokisini - Dlala ibhodi lomudlalo “Izinyoka nezitebhisi” nama “dominoes”.	Amabhuku, izikhangiso Ikhadi elivezwayo elinamachashaza  Izikhwanyana zikabhontshisi “Izinyoka nezitebhisi” ibhodi lokudlala amaDomino	Usuku olu-1
Amanothi: Izinombolo zisizungezile: - Inombolo ngayinye inenombolo - Sonke sinezinombolo zocingo ezehlukene - Siyazibona izinombolo emafasiteleni ezitolo. - Siyazibona izinombolo emikhiqizweni uma sithenga esitolo - Siyazibona izinombolo ezimotweni			
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Hlela bese uqhathanisa izinto eziqoqiwe usebenzisa “kuningi kune,kuncane kune” kanye “kuyalingana”ufike kunombolo yesi-3** **Ukusebenza komzimba** Biza abafundi abathathu beze ngaphambili .Mabahlale benze indilinga - Abafundi ababili mabame. Bangaki abahleli? Babale. Bangaki abamile? Babale. Iyiphi inombolo enkulu /nenabaningi, iyiphi inombolo enokukuncane /okumbalwa? - Abafundi abathathu abame. Babale. Iyiphi inombolo enokuningi/ okuncane? Umfundi oyedwa ngaphezulu makame. Babale. Ingabe abafundi abamile baningi yini kunabafundi abahleli? - Phinda ngezinombolo 1kuya koku-3 - Bala amantombazane.Bala abafana. Ingabe abafana baniningi kunamantombazane?		Usuku olu-1

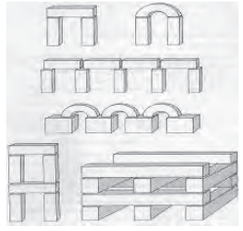
Isonto 15	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Sebenzisa izinto eziphathekayo ezinhlangothi ntathu (3-D)** Hlukanisa abafundi babengamaqembu ama-5 Nika iqembu ngalinye isinqamu sentambo/iwuli kanye nezinto ezi ± 5. Abafundi bakha isidleke ngewuli. - Uthisha uhlebela iqembu ngalinye ukuthi lenze iqoqo lezinto ezintathu noma ezimbili noma eyodwa esidlekeni. - Abafundi kumele bakhombe ukuthi yiliphi iqoqo elinezinto ezingaphezu kweyodwa. - Yiliphi iqembu elinezinto ezingaphansi kwezintathu? - Yiliphi iqembu elinezinto ezinenani elifanayo?.	Intambo Izinto ezi-5 zeqembu	Usuku olu-1
2.1 **Amaphethini okusazibalo mdwebo**	• **Kopisha bese uqedela iphethini elinikeziwe ngokwemibala obomvu, okuluhlaza nokuphuzi** **Ukusebenza komzimba** - Uthisha uyayilingisa iphethini. Aphindaphinde alandele isigqi isib. o Ihlombe, ukuqhwaba (iminwe) ihlombe, ukuqhwaba o Qhwaba, ihlombe, gxoba ,qhwaba, ihlombe, gxoba o Ihlombe, qhwaba, ihlombe, qhwaba,ihlombe, qhwaba **Izinto eziphathekayo kusebenza izinto ezi 3-D** Uthisha unika umfundi ngamunye imibala emi-3 obomvu, 3 okuluhlaza, 3 okuphuzi izinto zokubala noma izivalo zamabhodlela. Yenza abafundi: - **Kopisha** iphethini elinikezwe uthisha isib. Obomvu, oluhlaza,ophuzi nophuzi (phindaphinda kaningi ngephethini ehlukile) - **Qedela** iphethini oyinikiwe isib. Ophuzi, obomvu…… (phindaphinda kaningi ngephethini ehlukile) - Yenza abafundi bahlele izinto zokubala ngokwemibala emithathu ehlukene.		Usuku olu-1
	Izithombe ezisebenzisa izimo ezi 2-D - Nikeza umfundi ngamunye iphepha - Yenza abafundi baqedele iphethini yesimo esi 2-D njengomphetho - Qedela isithombe sobuciko obubonakalayo ngokudweba isithombe phakathi nendawo. 	Iphepha elingu A4 lomfundi ngamunye amakhilayoni	

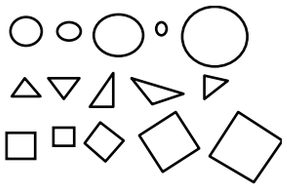
Isonto 15	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
4.2 **Ubude**	**Qhathanisa uhlele izinto eziphathekayo usebenzisa ulwazi lwamagama ukuchaza ubude** - **Okude, okufishane** - **Ukudana, okufishanyana** - **Okude kakhulu, okufishane kakhulu** **Ukusebenza komzimba** - Yenza umfundi oyedwa alale phansi, bese wenza abafundi babeke amabhuloki eduze komzimba wakhe - Uthisha ucela abafundi bonke ukuba bakhe into ethile emfishane kunomngane wabo, nokude kunomngane wabo Yenza abafundi ba: - Isiphi isakhiwo esidana kuno? - Isiphi futhi isakhiwo eside kakhulu? - Isiphi isakhiwo esifushanyana? - Isiphi isakhiwo esifishane kakhulu?	Amabhuloki okwakha	
	Yenza abafundi bahlele izinto ezinhlobonhlobo - Kusukela kokude kakhulu kuya kokufishane kakhulu - Kusukela kokufishane kakhulu kuya kokude kakhulu - Yenza abafundi baqhathanise ubude bezinto ezahlukene. Uthisha unika abafundi izinqamu zentambo. Khuthaza abafundi ukuba baqagele ngaphambi kokuthi bakale. Yenza abafundi bakale - Ikhanda lomunye - izinyawo zomunye - amaqakala abo - izihlakala zabo - yenza baqhathanise ubude obehlukene ngokubona ukuthi isiphi isinqamu esidana noma esifishanyana isib. Isinqamu sentambo esikale ikhanda sidana kunesikale isihlakala. - Yenza abafundi basho ukuthi ukuqagela kwabo bekuyiqiniso yini.	Intambo Izichibi zendwangu Amakhirayoni anobude obuhlukene Iwuli noma intambo abafundi	

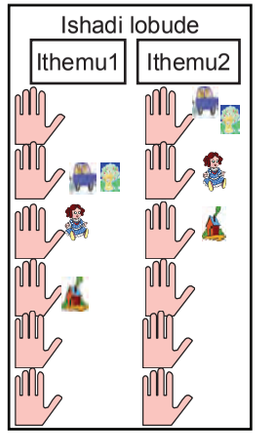
Isonto 16	Izikhathi Zokufunda Eziphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Yethula ulwazi olutholakele olifaka inombolo oku 4** **Ukukhuluma:**ukubala izinto zansukuzonke kufinyelele koku 4. Ukubala uye phambili ubuye uye emumva 4. Ukubala bephimisela 1-7	 Amaculo ezinombolo nemilolozelo Abafundi uqobo	Usuku olu-1
	Ukugcizelela ulwazi loku "kuningi" noku "okumbalwa". Shaya izandla kaningi ...IMA. Shaya izandla kambalwa. Uthisha ushaya izandla kuze kube ka -4. **Ukusebenza komzimba** Yenza abafundi: - Nqekuzisa ikhanda ka 4. - Kwenziwa inombolo 4 kusetshenziswa imizimba. - Abafundi basho ukuthi Bangaki abafundi abazobadinga. - Abafundi badlala amehlo. Uthisha ushaya phezu kwetafula ka 4. - Bavula amehlo abo basho ukuthi kungalki ukushaywa kwetafula abakuzwile. Uphinde ngezinombolo 1kuya 4.		

Isonto 16	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	**Izinto eziphathekayo kusebenza izinto ezi 3-D** Yenza abafundi: - Yenza inombolo 4 ngobumba lokudlala. - Thola aBangani abane 4 abagqoke izicathulo. - Thola izinto ezi 4 eziyindilinga. - Bopha amehlo abafundi ubenze babone izinombolo 1 kuya 4 ngokuzwa/ukudweba phezu kwenombolo yesendiphepha. - Thuthukisisa ukuqaphela ukugcinwa kwenombolo ngokwenza abafundi bapakishe izinto zokubala ezine nomas ezinye izinto ngezindlela ezahlukene isib.  Uma kubalwa, inombolo yezinto ayiphazamiseki ubukhulu, noma isikhundla , noma izinto zohlobo olufanayo. Isibonelo: - Hlela izinkinobho ezi 4, 4 amapensela, 4 amahula huphu, 4 abafundi njll. - Zibale ngokuhleleka okufanele isib. Zibale ngokuzendlala, uzisondezele ndawonye, emugqeni noma ngokuzipakisha **Izithombe ezisebenzisa izimo ezi 2-D** Yenza abafundi: - Babheke izithombe ezi 4 bese bezinamathisela ephepheni. - Baqondanise inombolo yezinto nenombolo yamachashazi ekhadini elivezwayo. - Khomba ikhadi elivezwayo elinamachashazi amane.	Ubumba lokudlala Izinto eziyindilinga Yenza isethi **yezinombolo zamakhadi ezinombolo zikasendiphepha** uzinamathisele emakhadini aseceleni. Uma ungawavikela ngokuwamboza ngokusapulasitiki la makhadi abafundi Bangakwazi nokwenza izinombolo zobumba emakhadini. 4 Izinto zokubala noma 4izinto umfundi ngamunye. Amabhuku, amapheshana ezikhangisi,izikhangisi. A4 Iphepha neglu- **Isithombe sezinto ezi 4** 	Usuku olu-1

Isonto 16	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Sebenzisa inombolo 4 esimweni esijwayelekile** - Ikwenza ucabangeni inombolo 4? Imoto - amasondo amane Isihlalo - imilenze emine Inja - izidlda ezine Itafula - imilenze emine - Ukuthuthukisa ukwazi izinto sakuhuba, khuthaza abafundi ukuba bazi izinombolo namakheli asemakubo sakuhuba. **Izinto eziphathekayo kusebenza izinto ezi 3-D** - Nikeza ithuba lokudlala imidlalo yenombolo khadi ekhona ekilasini lakho. **Izithombe ezisebenzisa izimo ezi 2-D** - Khombisa ikadi lophawu lwenombolo 4. Dlala imidlalo enjenga le: - Uma inamba yomuzi wakini inenombolo 4 kuyona shaya izandla ka-4.. - Thola umngani ekilasini lakho onenombolo yendlu efanayo neyakho..(Abafundi babuza aBangani izinamba zezindlu zabo) - Ekabani inombolo yendlu engaphezu kuka- 4? - Khombisa abafundi ikhadi elinamachashazi amane. - Khomba ikhadi elinezithombe ezine..	Amakheli emizi yakubo kwabafundi Abafundi **4** Noma imaphi amakhadi ezinombolo okudlala akhona. **Isithombe sezinto ezi 4**  Amakhadi akhombisa izithombe ezi-4 kanye namachashazi ama-4.	Usuku olu-1

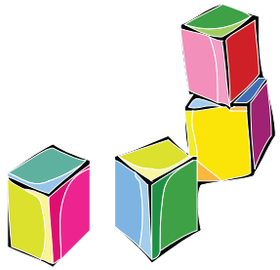
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Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.2 **izinto ezinhlangothi ntathu (3-D)**	• **Bona izinto ezinokwenziwa amabhuloki okwakha** Yenza abafundi: - Basebenzise noma IMAphi amabhuloki amane ukwakha isakhiwo.. - Bakhe isakhiwo isingamabhuloki ama 3 ukuphakama nama5 ukuvundla. - Basebenzise amabhuloki amaningi ngendlela abayidingayo ukwakha isitimela. - Bakhombe okunguyena owakhe isitimela eside kunabo bonke. - Bakhe umbhoshongo omude (Obheke phezulu). - Bakhe isakhiwo esiyicaba, isib. Umgwaqo noma indlu (obheke ohlangothini). - Bakhombe owakhe umbhoshongo omude kunayo yonke. - Banikeze amabhuloki okwakha ngesikhathi esikhululekile sokudlala ngaphakathi ukuze abafundi baqhubeke nokusebenzisa amabhuloki okwakha.	Amabhuloki okwakha isib. 	Usuku olu-1
3.3 **Izimo ezinhlangothi mbili (2-D)**	• **Bathuthukise ikhono lokwehlukanisa kwezimo endaweni yethu, ngaphandle kobukhulu noma iyengela yobukhulu.** - Ukugcina isimo (ukwenza kufane) **Okusebenzisa ukunyakaza komzimba** Yenza abafundi emaqenjini angama-3: - Balale phansi bakhe unxantathu ngemizimba yabo. Batshele ukuthi nakuba onxantathu abenziwe ngemizimba ehlukene bengafani, kodwa nabo kuseyibona onxathathu. - Uthisha udweba izinhlobo ezahlukene zonxantathu phansi/emhlabathini, isib.  - Abafundi bahamba eceleni kukanxantathu ngamunye bazizwele izinhlobo ezahlukene zamayengela ngemizimba yabo. **Izinto eziphathekayo kusebenza izinto ezi 3-D** - Sebenzisa 7 izinto zokubala uzibeke zakhe umugqa oqondile. 	Abafundi 7 Izinto zokubala kumfundi ngamunye	Usuku olu-1 Khetha okukodwa okuzosebenzisa umzimba, nemisebenzi izinto eziphathekayo nezithombe

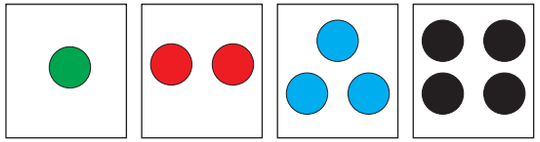
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Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **Izimo ezi 2-D**	Sebenzisa izinto zokubala zakhe umugqa ogobile.  Sebenzisa izinto zokubala ukwakha umugqa omazombezombe  Batshele ukuthi nakuba onxantathu babafundi bengafani kodwa leyo mumo kusengonxantathu. 		
	Izinto eziphatheka ngokungaphelele ezisebenzisa izimo ezi 2-D Uthisha udweba izinhlobo ezinhlanu zezindilinga, zonxantathu kanye nezikwele ekhadini elivezwayo,isib.  Uthisha uhlukanisa abafundi ngamaqembu. Yenza abafundi: - Ukubona amakhadi avezwayo awunxantathu kwamanye ezinye izimo	Amakhadi anezindilinga ezi -5 ezahlukene, onxantahtu nezikwele	

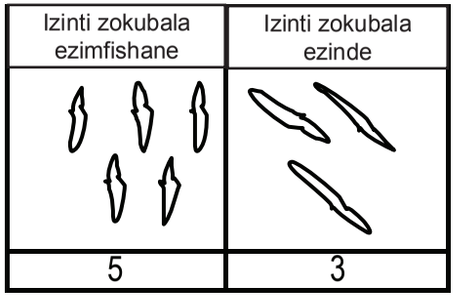
Isonto 16	**Izikhathi Zokufunda Eziphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
4.2 **Ubude**	**Qhathanisa uhlele izinto eziphathekayo usebenzisa amagama amasha anembayo ukuchaza ubude** - Kude, kufishane - Kude ngokuthe xaxa, kufishanyana - Kude kakhulu, kufishane kakhulu - Kufishane, kufishanyana, kufishane kakhulu - Kude, kude ngokuthe xaxa, kude kakhulu **Gcizelela ulwazi lobude** **Ukusebenza komzimba** Yenza abafundi: - Babone ubude ngokuqhathanisa izinto nezinye. - Khomba ukuthi iyiphi into ende kakhulu nokuthi iyiphi emfishane kakhulu - Qhathanisa ubude babafundi ababili bese kukhonjwa ukuthi imuphi umfundi omfishane nomude - Qhathanisa ubude babafundi aBangaphezu kwababili bese ubuza imibuzo efana nale “imuphi umfundi omfishane kakhulu nokuthi imuphi omude kunabobonke. - Uthisha ulinganisa abafundi futhi esebenzisa ishadi lobude kusukela kuthemu yokuqala. - Uthisha ushiya umsebenzi awubhalile wethemu edlule. (izandla ezinezimpawu zabafundi/izithombe) khona bezoqhathanisa izilinganiso ezimbili. - Abafundi babona ukuthi ngabe bakhulile ukunangethemu edlule. - Ubani ongakhulanga nhlobo? - Ubani okhulile kusukela ngethemu yokuqala?Isib. o USipho igxatho elingangesandla. o Ubude buka Themba busafana nasekuqaleni	Amapensela, intambo, amaphegi, njll. Isandla Ishadi lokulinganisa ubude  	Usuku olu-1

Isonto 17	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.1 **Bala izinto**	• **Ukugcizelela ulwazi olutholwe ngokuqonda inombolo-4** **Ukukhuluma**: ukubalaizinto ufike-4 nsukuzonke. Ukubala uya phambili nokubala uya emumva ufike ku-4. **Ukugcizelela ulwazi "lokuningi" no "kuncane".** Ukushaya ihlombe izikhathi eziningi …… IMA. Ukushaya ihlombe izikhathi ezimbalwa.Shaya ihlombe ufike ko-4.	Amaculo nemilolozelo yezinombolo	Usuku olu -1
	Ukusebenzisa umzimba Yenza abafundi ba; - Bhala inombolo-4 emoyeni usebenzisa umunwe. - Ukucula iculo isib. 'amabhodlela aluhlaza sasibhakabhaka alenga obondeni....' - Phenduka izikhathi ezi- 4.		
	Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu-3-D Yenza abafundi bathuthukiswe ngolwazi lwezinombolo ba: - Dwebe esihlabathini inombolo-4. - Thola u-4 ngezinto ezinhlangothi ntathu-3-D ezigingqikayo - Yakha amaphazili ngezingxenye ezi-4. **Ukusebenzisa izimo noma izithombe zonhlangothi mbili 2-D** - Uthisha ukhetha amakhadi-4 anamagama.Uthisha uveza igama bese kulandela isithombe sethoyisi noma sesilwane. - Umfundi igama lakhe eliveziwe utshengisa ngokwenza umsindo walelothoyisi eliwenzayo. - Phinda ngokuveza onke amagama omane aze aphele. - Buza ukuthi mangaki amagama abafundi aveziwe? Mangaki amathoyisi/izithombe zezilwane ozibonile?	Ibhokisi/ipani lokubhaka eliyisicaba esinesihlabathi Izinto ezinhlangothi nthathu-3-D ezigingqikayo Izingxenye ezi-4 zephazili Amakhadi anesithombe sethoyisi Amakhadi anezithombe sesilwane	

Isonto 17	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.3 **Izimpawu namagama ezinombolo**	**Ukwazi izimpawu zezinombolo nokubona igama lenombolo 4.**	Amaculo nemilolozelo yezinombolo	Usuku olu -1
	Ukugcizelela ulwazi “lokuningi” no “kuncane”. Ukushaya ihlombe izikhathi eziningi …… IMA. Ukushaya ihlombe izikhathi ezimbalwa.Shaya ihlombe ufike ko-4. **Ukusebenzisa umzimba** - Ukubhala inombolo uku-4 emoyeni.Bhala phansi, emhlane womngani wakho - Phakamisa iminwe e-4 - Uthisha udlala isigubhu. Uma isigubhu sithula,abafundi bakha amaqenjana nga-4		
	Ukusebenzisa izimo noma izithombe zonhlangothi mbili2-D - Tshengisa abafundi amaflashikhadi anenombolo-4 - Khomba igama lenombolo emakhadini ezinombolo - Hlanganisa igama lenombolo nezinto ezilinani zaleyonombolo.	Iflashikhadi nenombolo Iflashikhadi negama lenombolo-ukune izinto ezinhlangothi ntathu 3-D **4** **kune**	

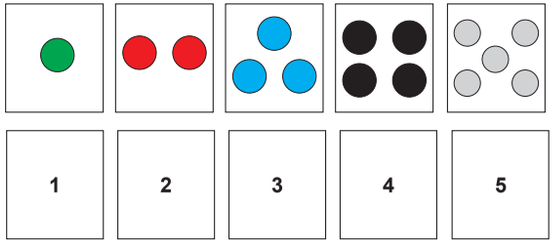
Isonto 17	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.7 **Ukuhlanganisa nokususa**	• **Ukuxazulula nokuchaza ngokukhuluma ukuthi uyixazulule kanjani inking yamagama ezibalo (izibalo zengxoxo) nalezo ezifaka inombolo-4** **Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D** **Izibonelo:** 1. Uthisha unika amabhuloki ama-2 ubuvele unawo ama-2. usunamabhuloki amangaki esewonke? 2. Uma unezindilinga eziluhlaza ezi-2 nezinye ezi-2 ezibomvu,unezindilinga ezingaki sezizonke? 3. USipho unamakhilayoni angu-4 kanti uJabu une-1 ikhilayoni.Ubani onamakhilayoni amaningi? 4. Uma uMuhle enonodoli aba-4 walahla owo-1, usele nonodoli aBangaki? Hlukanisa abafundi ngamaqembu. - Nika iqembu ngalinye inqwaba yezinto isib. amapensela, amakhilayoni, izinkomishi, izimo.Yenza abafundi babelane ngezinto abazitholile ilungu nelunga lithole eqenjini. (okukodwa-nokukodwa- okuqondene) - Buza imibuzo njengale: “zikhona yini izinto ezisalile ?” - (uthisha akabe nesiqiniseko sokuthi ubanika izinto ezingaphezu kwesibalo sabo eqenjini.Susa lezo zinto ezizotshengisa ukwabelana ngokulinganayo)	 amabhuloki amakhirayoni izindlinga eziluhlaza njengesibhakabhaka onodoli izinto ezanele (ngomfundi ngamunye) njengamapensela,amakhilayoni, izinkomishi,izimo.	Usuku olu -1

Isonto 17	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Ukuhlela nokuqhathanisa amaqoqo ezinto usebenzisa ‘’okuningi kune.., okuncane kune…” no “kulingana”ufikekunombolo-4** Hlukanisa abafundi ngamaqembu - Uthisha unika iqembu ngalinye izinto zokubala ezi-4nezinqamu zewuli/nsonto ezimbili Yenza amaqembu ba: - Bakha izindilinga ezimbili (amasethi)ngewuli. - Ngokulandela umyalo kathisha babeka izinto zokubala esethini ngayinye. - Amalunga eqenjini bakhomba ukuthi yiliphi isethi elithole izinto zokubala eziningi kunenye.? (okuningi kune) - Yiyiphi indilinga enezinto ezincane kunenye.? (okumbalwa) - Yiyiphi indilinga enezinto zokubala ezinenani elilinganayo kunenye? (ukulingana) **Ukusebenzisa izimo noma izithombe zonhlangothi mbili 2-D** Hlela isethi yamakhadi ezithombe ngokulandelanisa okufanele **Isithombe sento e-1** | **Isithombe sezinto ezi-2** | **Isithombe sezinto ezi-3** | **Isithombe sezinto ezi-4**  Hlela isethi lamakhadi amachashazi ngokulandelana okufanele. Isib. - Buza imibuzo enjengale “Yiliphi ikhadi elinezinto/amachashazi amaningi? - Yiyiphi inombolo enokuningi kuno-2 njll?	iwuli/intambo izinto zokubala ezi-4	Usuku olu -1

Isonto 17	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
5.1 **Qoqa bese uhlela izinto**	• **Ukuthuthukisa indlela yokusebenza ngolwazi oluqokelelwe.** **Ukusebenzisa izinto eziphathekayo ezinhlangothi mbili 3-D** - Yenza abafundi baqoqe izinduku ezi-9. - Hlela lezinduku ngobungako bobuncane nobude	Abafundi benza awabo amaqoqo ezinduku	Usuku olu -1
5.2 **okumele izinto eziqoqiwe**	**Ukudweba igrafu nokukhangisa ngolwazi** **Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D** - Yenza igrafu yesithombe ngezinduku - Abafundi bapakisha izinduku kwigrafu yezithombe ngobungako bazo isib.okuncane nokude.  	Iphepha lokubhalela legrafu yesithombe. Uthisha udweba ephepheni eli-A4 izikhala ezifanele zomfundi ngamunye	
5.3 **Xoxa bese usho ngezinto eziqoqiwe**	**Ukufunda nokuhumusha amagrafu** • Xoxa ngemiphumela ngokubuza lemibuzo isib. “Zingaki izinduku ezincane ezilapho? Zingaki izinduku ezinde? Yiziphi eziningi/ezimbalwa?		

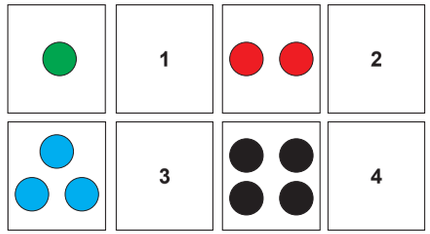
Isonto 18	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.1 **Bala izinto**	• **Ukugcizelela ulwazi olutholwe ngokuhlanganisa izinombolo- 1, 2, 3 no 4.** **Ukukhuluma;**ukubala izinto ufike ku-4 nsukuzonke. Ukubala uya phambili nokubala uye emumva ufike ku-4. Ukubala okusakuhuba 1-7 **Ukugcizelela ulwazi "okuningi" no "kuncane"** Ukushaya ihlombe izikhathi eziningi …… IMA. Ukushaya ihlombe izikhathi ezimbalwa. Shaya ihlombe ufike ko-4 **Ukusebenzisa umzimba** Yenza abafundi ba: - Bhala phezu kwayo inombolo-1 emoyeniusebenzisa umunwe. - Abafundi bathinta amakhanda abo izikhathi ezi-2 - Xhawulana nabafundi abanye aba-4 . - Vala amehlo abafundi bese bekhomba izinombolo bengaziboni kusuka ko-1-kuya-4 ngokuyizwa/ngokubhala phezu kwayo inombolo eyenziwe ngesihlabathi esinamathiselwe emakhadini. **Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D** Yenza abafundi ba: - Dweba inombolo-1 esihlabathini. - Thola izinombolo ezi-3 zezinto ezifanayo. - Gxuma endaweni eyodwa izikhathi ezi-2.(kabili) - Yakha iphazili enezingxenye ezi- 4 nangaphezulu.	Amaculo nemilolozelo yezinombolo Ipani /ibhokisi lesihlabathi Isethi lamakhadi ezinombolo ezibhalwe ngesihlabathi. Izinto abafundi 4-izingxenye zephazili	Usuku olu -1
1.11 **Imali**	• **Ukubona nokukhomba izimali yaseMzansi Africa** **Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D** - Yenza abafundi bazi ngezilwane ezehlukene nezithombe zezitshalo ezisemalini. - Ukusebenzisa imali kungasebenza esifundweni samaKhono eMpilo lapho abafundi bezodlala isitolo.Ngokudlala isitolo abafundi Bangathola ithuba lokubona izinhlamvu zemali ezehlukene.	5c,10c,20c,50c,R1,00,R2,00 no R5,00 imali (imali yokudlala noma imali yangempela)	Usuku olu -1

Isonto 18	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.7 **Ukuhlanganisa nokususa**	**Ukuxazulula izinkinga ngokukhuluma ozinikeziwe ngokuhlanganisa nokususa ngemiphumela ufike ku-4** **Ukukhuluma;**ukubala izinto ufike ku-4 nsukuzonke. Ukubala uya phambili nokubala uye emumva ufike ku-4 Ukubala okusakuhuba 1-7 **Ukugcizelela ulwazi "lokuningi" no "kuncane".** Ukushaya ihlombe izikhathi eziningi …… IMA. Ukushaya ihlombe izikhathi ezimbalwa.Shaya ihlombe ufike ko-4. **Ukunyakazisa umzimba** Izibonelo: 1. Uthisha ubiza umfundi o-1 ngaphambi kwekilasi. Usebiza abanye abafundi abangu-3. Bangaki abafundi ababiziwe sebebonke? 2. Uthisha upakisha izinto zokubala ezi-3. Wengeza eyodwa futhi. Zingaki izinto zokubala ezisetafuleni? 3. Abafundi bama ngaphambi kwekilasi. Uthisha ucela umfundi oyedwa ukuba ayohlala phansi. Bangaki abafundi abami ngaphambi kwekilasi manje? 4. UBusi unamapensela ang-4. Wanika uSifundo amapensela ama-2. Mangaki amapensela uBusi asele nawo?	Amaculo nemilolozelo yezinombolo Abafundi Izinto zokubala amapensela Sebenzisa izinhlobo eziningi zezinsiza ukunika umqondo wokusebenzisa amasu ahlukene.	Usuku olu -1

Isonto 18	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Ukuhlela nokuqhathanisa amaqoqo ezinto usebenzisa 'kuningi kune…, kuncane kune…" no "okulingene" ufike kunombolo-4** **ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D** - uthisha unika ilunga ngalinye leqembu amakhilayoni ambalwa. - Amalunga eqembu kumele akhombe ukuthi yimuphi umfundi onamakhilayoni amaningi kunabanye - Yimuphi umfundi onamakhilayoni amancane kunabanye? - Yibaphi abafundi abanamakhilayoni anenani elifanyo? **Ukusebenzisa izimo ezingonhlangothi mbili 2-D** - Hlela isethi lamakhadi ezinombololana afaka izinombolo u-1 kuya 5 ngendlela efanele isib..  - Buza imibuzo kanje; Yiliphi ikhadi elinezinto/amachashazi amaningi? - Yiyiphi inombolo enokuningi kuno-2 njll?	Amakhilayoni Amakhadi amachashazi nezinombolo	Usuku olu -1

Isonto 18	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
2.1 **Amaphethini okusazibalo mdwebo**	• **Ukukopisha nokuqedela iphethini oyinikiwe ngemali.** **Ukukopisha iphethini oynikiwe** - Uthisha uhlela iphethini esebenzisa “imali yokudlala” isib. 5c, 5c, 5c, 10c, 10c,10c,20c, 20c, 20c Yenza abafundi ba: - Bazokopisha amaphethini ambalwa enziwe uthisha. **Ukuqedela iphethini abayinikiwe** Yenza abafundi ba: - Qedela amaphethini ambalwa enziwe uthisha isib. o 5c, 5c, 10c, 10c,…… o 5c, 10c,…… o 10c, ,20c…….njill.	Imali yokudlala noma imali yangempela (5c,10c,20c)	Usuku olu -1

Isonto 19	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.1 **Bala izinto**	• **Ukugcizelela ulwazi olutholiwe noluhlanganisa izinombolo 1,2,3 no** 4 **Ukukhuluma:** ukubala izinto ufike ku-4 nsukuzonke. Ukubala uya phambili nokubala uye emumva ufike ku-4 Ukubala okusakuhuba 1-7 **Ukugcizelela ulwazi "lokuningi" no "kuncane".** Ukushaya ihlombe izikhathi eziningi …… IMA. Ukushaya ihlombe izikhathi ezimbalwa.Shaya ihlombe ufike ko-4. **Ukusebenzisa umzimba** Uthisha uphakamisa ikhadi lenombolo ebhalwe inombolo-3 bese ethi kubafundi: - Ngifuna abafana abaningi. - Aphakamise inombolo-2 bese ethi, ngifuna amantombazane ayileli nani. - Yenzani amaqembu nga (ephakamisa inombolo 2). - Phinda lomsebenzi wamakhadi ufake izinombolo-1-4	Amaculo nemilolozelo ezinombolo Izimpawu zamakhadi ezinombolo ezifaka izinombolo-1 kuya 4 Isib. **3**	Usuku olu-1
1.16 **Izibalo zekhanda**	**Izibalo zekhanda** Uthisha uphakamisa ikhadi lenombolo-3 bese ebuza abafundi: - Iyiphi lenombolo? - Yiyiphi inombolo eza ngaphambi kwenombolo-3? - Iinombolo eza emumva kwenombolo-3? - Phinda lomsebenzi ngezinombolo-1 kuya 4 - Ungangitshengisa ikhadi lesithombe elinenombolo efanaelinenombolo efana nalo?	Isethi lamakhadi lesithombe namachashazi elifaka izinombolo-1 kuya 4	

Isonto 19	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.16 **Izibalo zekhanda**	**Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D** - Uthisha ushaya ihlombe elandela isigqi esithile abuye anense ukukhombisa inombolo ethile. Abafundi bakhipha ubuhlalu obuningi bese bebubeka obala. Isib.ubuhlalu obu-4 - Yenza abafundi babeke ubuhlalu obu-1, 2, 3 no 4 phambi kwabo. - Tshela abafundi baveze ukuthi bungaki ubuhlalu abanabo ngokuqondanisa inani lobuhlalu nefleshikhadi yenombolo elingana nobuhlalu.isib.ubuhlalu obu-4 nenombolo-4 - Benze bafune umfundi onobuhlalu obulingana naleyonombolo. **Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D** Uthisha uphakamisa ikhadi lamachashazi amele inombolo uku-2 bese ebuza abafundi: - Mangaki amachashazi kulelikhadi? - Iyiphi inombolo emele lamachashazi? - Iyiphi inombolo eza ngemumva kwalenombolo? - Badweba inani lamachashazi afanayo ephepheni abalinikiwe.	ubuhlalu obu-4 kumfundi ngamunye Amaflashikhadi ezinombolo 1,2,3 no 4 Amaflashikhadi amachashazi 	

Isonto 19	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.7 **Ukuhlanganisa nokususa**	• **Ukuxazulula izinkinga ngokukhuluma ozinikeziwe ngokuhlanganisa nokususa (izibalo zengxoxo) ngemiphumela ufike ku-4** **Ukunyakazisa umzimba** - Biza abafundi aba-3 phambi kwekilasi.Ababalwe. - Biza omunye umfundi-1 ' Bangaki abafundi sebebonke?3 no 1→4 (okuthathu nokukodwa kusinika- 4) - Phindisela emumva abafundi aba-3 beyohlala phansi.Bangaki abafundi abasele manje? 4 susa 3→1 Hlukanisa ikilasi ngamaqembu. Buza lemibuzo: - Mangaki amakhala owabonayo eqenjini lakho? - Mingaki imilomo? - Mingaki imizimba: - Kubafundi ababili, mangaki amehlo? - Kubafundi ababili,mingaki imilenze? **Ukusebenzisa izimo eziphathekayo ezinhlangothi ntathu 3-D** Izibonelo: 1. Ubaba kaLindiwe unemoto.Mangaki amasondo emoto yakhe? 2. Uma isondo lemoto liphantshile, uyalikhipha emotweni, mangaki amasondo asele? 3. Isikhukhukazi sinamachwane amane. Amachwane amabili ayalahleka. Mangaki amachwane asele nesikhukhukazi? 4. Isikhukhukazi siyawathola amachwane aso abelahlekile. Mangaki amachwane esinawo manje?	Izinto zokubala Sebenzisa izinhlobo eziningi zezinsiza ukunika umqondo wokusebenzisa amasu ahlukene	Usuku olu -1

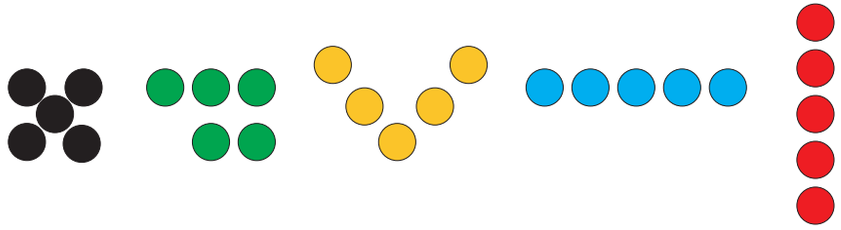
Isonto 19	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Ukuhlela nokuqhathanisa amaqoqo ezinto usebenzisa 'kuningi kune…, kuncane kune…" no "okulingene" ufike kunombolo-** **Ukusebenzisa umzimba** - Uthisha ubeka izinto ezehlukene etafuleni.isib.amakhilayono ama-2, amabhuloki afanayo ama-4,amathini ama-3, izincwadi ezi-2 Yenza abafundi ba; - Bala inani lamakhilayoni nelamathini.Kungabe amakhilayoni amaningi noma amathini? - Bala inani lamabhuloki nelezincwadi. Ingabe amabhuloki amancane kunezincwadi? Ingabe amabhuloki amaningi kunezincwadi? - Bala izincwadi namakhilayoni.Ingabe inani lalezizinto liyalingana noma cha?	Amakhilayoni,amabhuloki,amathini,izincwadi	Usuku olu -1
	Ukuebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D - Yenza abafundi bahlale phansi ubanike izinto zokubala eziningi umfundi ngamunye. - Abafundi mabathole amanani ahlukene ezinto zokubala. - Yenza abafundi babeke izinto zokubala phambi kwabo. Uthisha ubuza abafundi: o Ubani onezinto zokubala eziningi? o Ubani onezinto zokubala ezincane? o Obani abanezinto zokubala ezinenani elinganayo?	Izinto zokubala Uthisha unika umfundi ngamunye amanani ahlukene ezinto zokubala kufike ku-4	
3.3 **Izimo ezinhlangothi mbili (2-D)**	**Ukubona, ukukhomba nokubiza izimo ezinhlangothi mbili ekilasini nasezithombeni.** • **Ukwenza nokuqedela iphazili yakhe enezingxenye ezi-4** (hlanganisa nobucko bukubuka) Yenza abafundi ba: - Dweba isithombe ephepheni eli- A4. - Uthisha udweba imigqa ngemumva kwephepha elinommdwebo. womfundi - Umfundi usika isithombe elandela imigqa edwetshiwe. - Umfundi uqedela /akhe iphazili yakhe	imidwebo yabafundi 	Usuku olu -1

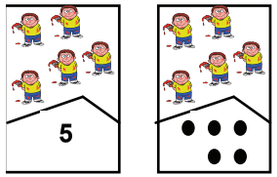
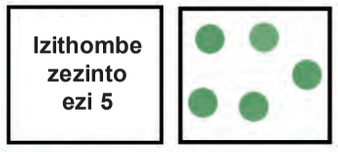
Isonto 19	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
4.1 **Isikhathi**	• **Ukuthuthuka ngokuqaphela ngokwenzeka phakathi kwesikhathi sesidlo santambama nesikhathi sokulala** (Ukuhlanganisa izihloko zokuQala koLwazi esifundweni samaKhono eMpilo) Yenza abafundi ba: - Ukukhuluma ngokuthi benzani emumva kokudla isidlo santambama. - Ukukhuluma ngokuthi kwenzakalani ekhaya emumva kwesikhathi sesidlo santambama. Uthisha uyababuza: - ‘’Niza nini esikoleni emini noma ebusuku?” - Uma uSibusiso efika esikoleni insimbi isikhalile,ingabe uSibusiso ufike esikoleni ngaphambi kwesikhathi noma ngemumva kwesikhathi? - Liphi ilanga ebusuku?”	Izithombe ezitshengisa ukuthi kwenzakalani kusukela ngesikhathi sesidlo santambama nangesikhathi sokulala.  	Usuku olu-1
	Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D. - Abafundi badweba izithombe ukukhombisa noma isiphi isimo emva kwesidlo sakusihlwa - Banike amaphazili atshengise ukulandelana kwezehlakalo noma imisebenzi	Iphepha namakhirayoni	

Isonto 20	Sebenzisa isonto 10 ukubhekelela ulwazi olusele nezindawo zokufunda ezinezinkinga.	
Ingxenye yokuqukethwe	**Isihloko**	**Amazinga Okuhlola**
Izinombolo, izimpawu nobudlelwane bazo	**1.1** **Ukubala izinto**	Qagela bese ubala ngokusakuhuba uze ufike ku 7 (Amaculo ezinimbolo nemilolozelo kufakelwa ukuthuthukisa ulwazi lwezinombolo)
		Ukubala uye phambili nasemumva (1-4)
		Ukuqonda ulwazi 'lokuningi nokumbalwa' (ukushaya izandla)
		Bona izinombolo ezimweni ezejwayelekile njenge nombolo yendlu , irejista yekheli
		Ubona izithombe zezinombolo namakhadi amachashaza akhombisa inombolo 1.
		Uyazazi izimpawu zezinombolo 1,2,3,4
		Ubona amagama ezinombolo okubili, okuthathu nokune
		Uyakwazi ukubala okukodwa nokukodwa okuhambisanayo (ishadi labasizi ngesikhathi sezidlo)
		Uyakwazi ukubonaphakathi kokuningi, okuncane, nokulinganayo, okuningi nokumbalwa kufinyelele koku-4
		Uyakwazi ukubona umehluko wemali ewuhlweza yaseNingizimu Afrika
	1.6 **Amaqhinga okuxazulula izinkinga**	Usebenzisa izinto ezibambekayo Uyakwazi ukuchaza into ayicaBangayo ngamagama , ngokudweba nangokusebenzisa izinto eziphathekayo.
	1.7 / 1.13 **Ukuhlanganisa nokususa**	Uxazulula izinkinga zokuhlanganisa nokususa ngokukhuluma kufinyelele koku-4
Amaphethini nokuxhumana	**2.1** **Amaphethini wokusazibalomdwebo**	Kopisha, qhubeza bese wakha amaphethini akho. (izinto, izimo, nohlweza)

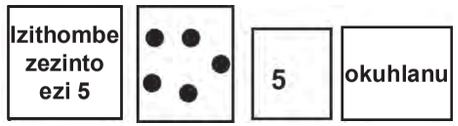
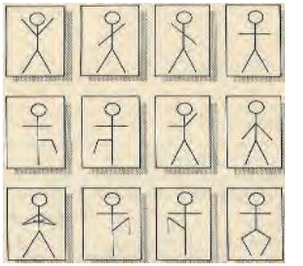
Isonto 20	Sebenzisa isonto 10 ukubhekelela ulwazi olusele nezindawo zokufunda ezinezinkinga.	
Ingxenye yokuqukethwe	**Isihloko**	**Amazinga Okuhlola**
Indawo nesimo	**3.1** **Isikhundla , isimo nokubukeka kwento**	Uqonda isikhundla sezinto ezimbili nangaphezulu ngokuhlobana nomfundi ngaphezulu nangaphansi
	3.2 **Izimo ezi 2-D**	Akha iphazili enezingcezu okungenani eziyi 12
		Ukhombisa ukukwazi ukuhlukanisa phakathi kokungaphambili nokuzungezile (phinda ukuhlole)
		Ukhomba bese ebona asho unxantathu (ukugcinwa kwesimo)
		Bona, khomba bese unika amagama amabhokisi
	3.2 **Izinto ezi 3-D**	Uqhathanisa amaqoqo amabili ezinto ezinde, ezinjana, ezimfishane, ezimfishane kakhulu.
		Hlela izinto ngobungako okude nokufishane
		Imibala – Imibala eyimisuka (obomvu, oluhlaza okwesibhakabhaka, ophuzi, oluhlaza okotshani)
		Izimo
		Ukwakha nokwenza ngamabhuloki okwakha
	3.4 **Ukuhlukanisa ngokulingana nse nxazombili**	Ukubona umugqa ohlukanisa umzimba kabili kufane nse nxazombili nokumzungezile
		Uyakwazi ukweqa umugqa ophakathi nendawo
Isilinganiso	**4.1 Isikhathi**	Uyazi izinsuku zesonto, izikhathi zonyaka, ishadi lesimo sezulu (amaculo nemilolozelo – phinda uhlole)
		Uyalwazi usuku lokuzalwa (phinda uhlole)
	4.2 Ubude	Yisho phakathi kokude, kokujana, kokude kakhulu, ukufishane, okufishanyana, okufishane kakhulu (ishadi lokulinganisa ukuphakama)
Ukuqokelelwa kolwazi	**5.1** **Qoqa uhlele izinto**	Ukwazi ukuqoqa, ahlele, adwebe, abeke okumele (ahlaziye) izinto ngokwezimo zazo
	5.2 **Ukubeka okumele izinto eziqoqiwe zahlelwa**	
	5.3 **Xoxa bese uthula umbiko ngezinto eziqoqiwe zahlelwa**	

ISONTO 21	ITHEMU 3 YEBANGA R **Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.1 **Bala izinto**	• **Yethula incazelo yenombolo 5** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela koku 5. Bala uye phambili ubuye uhlehle kufinyelela koku 5 Ukubala sakuhuba kusuka 1-10 **Gcizelela ukubala ngokwesikhundla**: Uthisha upakisha izinto zokubala ezi-3 emugqeni.khomba into ngayinye ngenkathi ubala *okokuqala, okwesibili, okwesithathu.* **Gcizelela ulwazi "okuningi nokumbalwa".** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 5. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa.	Imilolozelo namaculo ezinombolo Imilolozelo namaculo okubalalsib."Izinyoni ezinhlanu zihlezi emthini". Izinto ezinhlangothintathu	Usuku olu-1
	Ukusebenzisa umzimba Gqugquzela abafundi ukuthola inombolo 5 ngoku: - Shaya izandla zabo izikhathi ezi-5. - Thola ukuthi zingakhi izingane ekilasini esezineminyaka emi-5		

ISONTO 21	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.16 **Izibalo zekhanda**	**Izibalo zekhanda** - Uthisha ushaya izandla ngesigqi esithize nangokunwabuluka ukumela inombolo Isib.5.abafundi kufanele bathathe inombolo efanayo yezinto zokubala (5) bazikhombise. - Abafundi bapakisha izinto zokubala ezi-5 emugqeni bazibale. - Uthisha uyabuza: - Iyiphi inombolo eza ngaphambi kwenombolo 5? - Iyiphi inombolo eza emuva koku-4 njll? - Uma unama-apula ama-5 upha umngane ama-2. Mangaki ama-apula asele? - Ngikhombise iminwe emi-5. - Zingaki izinzwane onazo onyaweni olulodwa?	Izinto zokubala ezisesitsheni Ubumba / udongwe noma inhlama yokudlala amaqabunga	Usuku olu-1
	Sebenzisa izintoeziphathekayo ezinhlangothi ntathu 3-D Abafundi bathuthukisa umqondo wezinombolo ngoku: - Ukwenza inombolo 5 ngobumba lokudlala. - Cosha amaqabunga ama 5. - Bala izinto uzixhumanise nezinto zokubala. - Thuthukisa ukuqonda ukongiwa kwezinombolo ngokuvumelaabafundi - Pakisha izinto zokubala noma eziphi izinto ngezindlela ezihlukene.Isib.  Uma ubala, inombolo yezinto ayibuphazamisi ubungakho, noma isikhundla, noma ziyinhlobo efanayo.Isibonelo: - Hlela izinkinobho ezi5 ,umsizi 5, izivalo zamabhodlela 5, abafundi 5njll. - Zibale uzihlele ngezindlela ezihlukene Isib.zibale zendlalekile, zisondelene, zisemugqeni noma zelakanyene zayaphezulu.		

ISONTO 21	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Ukuthuthukisa ukukhumbula ugqugquzele abafundi bafake emqondweni izinombolo zezindlu zasemakhaya abo, ikheli kanye nezinombolo zocingo.** Badlala imidlalo efana no: - Uthisa usho inombolo yendlu, ikheli noma inombolo yocingo yomfundi. Umfundi okushiwo inombolo noma ikheli lakhe kufanele aphendule. - Uma kugcwaliswa iregista yobukhona kwabafundi uthisha angabuza imibuzo efana: “ingabe umfundi onenombolo yocingo 435-6256 ukhona namuhla?” “Ingabe umfundi ohlala e-Umbilo Road 123 ukhona namuhla?” - Abafundi basebenzisa amakhadi anezimpawu zezinombolo ukupakisha inombolo zezindlu zasemakubo noma izinombolo zezingcingo ngokulandelana noma abakwenzanga ngendlela. - Balingisa ingxoxo yocingo ngocingo lokudlala. Abafundi bashayela ucingo umuntu obalulekile. Kuhlanganise nemidlalo yeshashalazikwizifundo zamakhono empilo	Inombolo yocingo kufanele kube inombolo yokuxhumana yomzali noma umzali ongumbheki kungaba inombolo kamakhalekhukhwini Irejista yobukhona kwabafundi Amakhadi anezimpawu zezinombolo noma izimpawu zezinombolo ezinkulu ezakhiwe ikhadibhodi Ucingo lokudlala	Usuku olu-1
	Ukusebenzisa imifanekiso noma izithombe (izimo ezi 2-D) Uthisha ukhombisa abafundi: - Izinhlobo ezihlukene esithola kuzo ulwazi lapho singathola khona inombolo 5 Isib. amakhadi ezinsuku zokuzalwa, amaphephandaba, omagazini, izikhangisi njll. - Ikhadi elinamachashaza ama 5 kanye namakhadi anezithombe ezi 5. - Vumela abafundi baxhumanise amakhadi anezithombe namakhadi anamachashazi nezinto zokubala eziyinombolo elinganayo namachashazi nezithombe. - Yenza amaphazili ezinombolo afaka inombolo 5 isib. 	Amakhadi enzinsuku zokuzalwa amaphephandaba , omagazini amakhadi anamachashazi ama 5 amakhadi enezithombe ezi 5 izinto eziphathekayo izinto zokubala 	

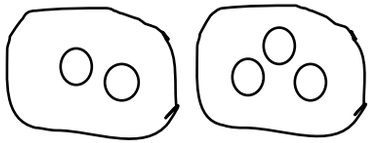
ISONTO 21	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	• **Ukwazi izimpawu zezinombolo nokubona amagama ezinombolo ezifaka inombolo 5** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela koku 5. Bala uye phambili ubuye uye emumva kuya ko- 5 Ukubala sakuhuba kusuka 1-10 **Ukubebenzisa umzimba** - Bonke abafundi mabahlale babe indilinga. - Unika abafundi izinombolo ngokwephethini. 1, 2, 3, 4, 5. Aqale futhi 1, 2, 3, 4, 5. Aqale futhi 1, 2, 3, 4, 5. - Buza imibuzo efana nokuthi; “ubani ozoba unombolo 5 olandelayo 5? “ubani ozoba unombolo 4 olandelayo 4? - Uyixazulule kanjani inkinga? - (abafundi baxazulula inking ngendlela yokwenza beqagela inombolo elandelayo bebala beqhubeka)	Imilolozelo namaculo ezinombolo	Usuku olu-1
	Sebenzisa izinto eziphathekayo ezinhlangothi ntathu - Sebenzisa amakhadi anezinombolo ezibunjiwe afaka izinombolo 1 kuye koku 5. - Abafundi bavala amehlo bezwe inombolo 5 phakathi kwezinye izimpawu zezinombolo besebenzisa iminwes. Nika umfundi ngamunye izinto zokubala ezinhlanu nezinkomishi zeplasitiki ezimbili noma izitsha zamaqanda ezimbili. - Buza abafundi: “singaki izindlela ezihlukene ongahlela ngayo izinto zokubala ezinhlanu kobhasikidi ababili?  noma njll.	Amakhadi anezinombolo ezibunjiwe anonombolo 5	

ISONTO 21	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
	Sebenzisa imifanekiso noma izithombe ezi2-Di Abafundi ba: • Bakhomba ikhadi elinezithombe ezi-5. • Bakhomba ikhadi elinamachashaza ama-5 • Bakhomba uphawu lwenombolo 5 nomakuphi lapho lukhangiswe khona ekilasini. • Khomba uphawu lwenombolo olusekhadini.. Bona igama lenombolo olusekhadini. • Xhumanisa izinto zokubala nophawu kanye negama lenombolo inani lezithombe kanye nenani lamachashaza asekhadini.	Amakhadi ezithombe, amachashazi, uphawu kanye negama lenombolo Izinto zokubala ezi 5 	
3.4 **Okufana nse nxazombili**	• **Gcizelela umugqa ohlukanisa okufana nse nxazombili kuyen ngokwenza iminyakazo egqugquzela ukunqamula umugqa ophakathi nendawo.** **Ukusebenzisa umzimba** Abafundi abenze lokhu: - Badlala umdlalo wesitimela lapho abafundi bekopisha indlela okumiwe ngayo eshadini. - Badlala umdlalo wesitimela lapho uthisa ekhombisa indlela ethize yokuma abafundi bakopishe bamlingisele. (kufaka iminyakazo lapho abafundi benqamula umugqa ophakathi nendawo isib.thinta idolo langasokudla ngesandla sokunxele.) - Badlala umdlalo wesitimela lapho umfundi ekhombisa indlela ethize yokuma abanye abafundi bakopishe. - Uthisha ukhombisa ukweqa welule izandla njengenkanyezi (**star jumps**) agqugquzele abafundi ukwenza umnyakazo ofanayo. **Sebenzisa izinto eziphathekayo ezi3-D** Abafundi abenze lokhu: - Amasakana okudlala (beanbag) kwesobunxele, kwesokudla, ngambili nangasemuva kwabo. - Sebenzisa isandla sokunxele ukubeka isaka lokudlala kwesokudla somzimba wakhe. - Lula izandla ukunqamula umugqa ophakathi nendawo noma bamba ihlombe nesandla sangakolunye uhlangothi. - Phinda umnyakazo ngesandla sokudla. Hlanganisa lomsebenzi nesifundo sokuvocavoca umzimba kwisifundo samakhono okuziphilisa.		Usuku olu-1 Emva kwalokho basebekwenza njalo ngesikhathi esikhululekile sokudlala kanye nemisebenzi yokuthuthukiswa kwezicubu zomzimba.

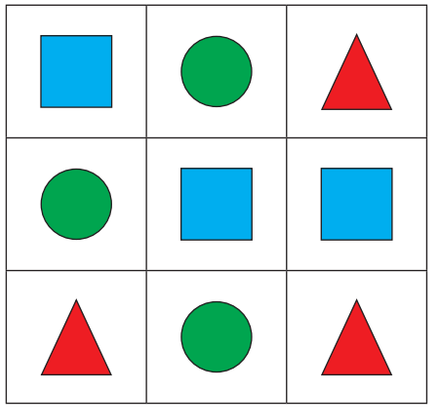
ISONTO 21	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
4.2 **Ubude**	• **Qagela ulinganise ubude bezinto ezihlukene usebenzisa izinyawo, izandla, intambo, induku.njll.** **Ukusebenzisa umzimba** abafundi abenze lokhu: - Baqhathanisa ubude bezinyawo nezandla zabo. - Abafundi baqagela ukuthi iyiphi into ende nemfishane ngokulinganisa ngezinyawo noma izandla isib. Itafula noma isinqamu sepayipi. - Qagela eyiphi into ende kakhulu noma emfishane kakhulu isib. Indlela yezinyawo noma umugqa wezitina. - Abafundi baqagela iyiphi engaba yinde kakhulu isib.ikilasi, igumbi lokuhlala othisha? - Buza umbuzo ofana no: “okuphi okude ngokuthe xaxa / okude kakhulu, umsizi noma intambo?” njll.	Izinto ezinobude obuhlukene ezingalinganiswa ngezandla noma izinyawo Isib. Irula, itafula, umnyango, umugqa wezitina, ikilasi, umtapo wolwazi njll.	Usuku olu-1

Isonto 22	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.1 **Bala izinto**	• **Gcizelela ulwazi/ umqondo abawuzuzile kufaka inombolo 5** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela koku 5. Bala uye phambili ubuye uye emumva koku 5 Ukubala sakuhuba kusuka 1-10 **Gcizelela ulwazi "okuningi nokumbalwa".** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 5. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa. **Ukusebenzisa umzimba** Gqugquzela abafundi ukuthola inombolo 5 ngoku: - Khombisa iminwe emi 5 emoyeni. - Thola izinto ezi 5 ezibomvu, luhlaza okusasibhakabhaka, oliphuzi, luhlaza satshani. - Thola izinto ezi 5 ezibukeke njenge ndilinga, isikwele, unxantathu. **Sebenzisa izinto eziphathekayo ezi3-D** Abafundi abathuthukise ulwazi / umqondo wezinombolo ngokwenza lokhu: - Landa izincwadi ezi 5 kwigumbi lezinvwadi - Yakha umbhoshongo usebenzisa amabhuloki ama 5.	Amaculo nemilolozelo yezinombolo Isib.Imilolozelo namaculo okubalalsib. "1,2,3,4,5 ngamzukwana ngibamba ufishi ephila" Izinto zokubala izincwadi Amabhuloki okwakha	Usuku olu-1

Isonto 22	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.7 **ukuhlanganisa nokususa**	• **Xazulula izinkinga zezibalo zamagama ezifaka inombolo 5 ukhuluma / okusakuhuba (izibalo zengxoxo) uchaze izixazululo** **Ukusebenzisa umzimba:** - Biza abafundi aba 5 beze ngaphambili. Bahlukanisele izihlalo ezi 5 ngokulingana. - Thatha isihlalo esisodwa, hlukanisela abafundi abahlanu. Umfundi oyedwa usala enganaso isihlalo. - Qala koku 5 bala uhlehle.qala koku 3. Bala ufike koku 5. Qala koku 1. Bala kufike koku 4 njll. **Sebenzisa izinto eziphathekayo ezi3-D** **izibonelo**: 1. Bonisa umunwe owodwa esandleni esisodwa kanye neminwe emi 4 kwesinye isandla. Mingakhi iminwe isiyonke? 2. UThabo unamakhekhe ama 4. USipho umunika eliodwa ngaphezulu.mangakhi amakhekhe uThabo anawo ewonke? 3. Ikati elilodwa linezindlebe ezimbili. Zingakhi izindlebe zamakati amabili? 4. UThemba umatshe ama 5 uwanika uMandla wonke amatshe ama 5.mangakhi amatshe uMandla anawo? 5. UJabulani unomabuli ama 5 walahlekelwa aba 2. Bangakhi omabuli asele nabo? 6. Iculo, “isihlahla samawolintshi sinamawolontshi amahlanu ,wafika umoya lawa elilodwa kwasala amane, waqhubeka umoya umoya kwawa elinye kwasala amathathu... , liqhubeke kuze kuphele wonke.)	Izinto zokubala Omabuli Amaculo	Usuku olu-1

Isonto 22	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo2**	• **Qhathanisa amaqoqo ezinto ezimbili ozinikiwe usho lokhu Okuningi kuno, okuncane kuno, okulingana noku, kufike kunombolo 5.** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela koku 5. Bala uye phambili ubuye uye emumva kufinyelela koku 5 Ukubala sakuhuba kusuka 1-10 **Gcizelela ulwazi "okuningi nokumbalwa".** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 5. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa. **Ukusebenzisa umzimba** - Uthisha ubeka izinto ezinhlobonhlobo etafuleni isib.izinkomishi ezi 2, amabhuloki afanayo ayi 5, amathini ama 4, izincwadi ezi 2. Abafundi abenze lokhu: - Bala inombolo yezinkomishi namathini. Ngabe izinkomishi ziningi noma amathini maningi? - Bala inombolo yamabhuloki nezincwadi.ngabe ambalwa amabhuloki kunezincwadi? Ngabe maningi amabhuloki kunezincwadi? - Bala izincwadi nezinkomishi.ngabe inombolo yezinto iyalingana noma qha?	Amaculo nemilolozelo yezinombolo Izinkomishi ezi 2, amabhuloki afanayo 5 ,amathini 4 , izincwadi 2 .	Usuku olu-1
	Sebenzisa izinto eziphathekayo ezi3-D. - Abafundi bahlala kumata benza izidleke (nests) ezimbili ngovolo. - Uthisha unika imiyalelo isib.abafundi bafaka izinto zokubala ezi 2 esidlekeni esisodwa nezi 3 kwesinye isidleke.isiphi isidleke esinokuningi? Isiphi isidleke esinokumbalwa? - Uthisha ubiza abafundi aba 5 beze ngaphambili. Ubeka inombolo engafani yobuhlalu esandleni sengane ngayinye. - Isiphi isandla esinokuningi? - Isiphi isandla esinokuncane? **Ukusebenzisa imifanekiso noma izithombe (izimo ezi 2-D)** Uthisha ukhombisa amakhadi amabili izinombolo ezihlukene zamachashazi nezithombe. Abafundi baqhathanisa amakhadi anezithombe kanye namachashazi bakhombe "okuningi kuno", "okuncane/okumbalwa kuno" kanye "okulingana no"	Izigqamfu ezimbili zewulu ingane ngayinye Izinto zokubala eziyi 6 ingane ngayinye.  ubuhlalu Amakhadi ezithombe kanye namachashazi okufaka izinombolo 1 kufike 5	

Isonto 22	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
2.1 **amaphethini okusazibalo mdwebo**	• **Gcizelela ukukopisha iphethini olinikiwe** **Ukusebenzisa umzimba** - Basebenza ngamaqoqo bakopisha iphethini abalinikiwe isib.umfundi, isihlalo, umfundi, isihlalo. - Abafundi ababili, isihlalo esisodwa, abafundi ababili, isihlalo esisodwa. - Shaya phansi ngonyawo olulodwa,shaya phansi ngolunye futhi,gxuma / kheleza uye phambili, gxuma / kheleza uhlehle **Sebenzisa izinto eziphathekayo ezi 3-D** - Uthisha wakha iphethini esebenzisa izinto zokubala kanye nezivalo zamabhodlela isib. Into yokubala, into yokubala, isivalo sebhodlela, into yokubala, into yokubala, isivalo sebhodlela. Abafundi bakopisha iphethini. - Hamba kancane, kancane, shesha, shesha. (Uthisha ukhuluma ehamba) abafundi bakopisha iphethini. **Ukusebenzisa imifanekiso noma izithombe (izimo ezi 2-D)** - Hlukanisa abafundi amaqoqo ayisihlanu. Nika iqoqo ngizithombe benze amaphethini ngazo. - Abafundi bakha amaphethini abo ezithombe besebenzisa izithombe abazinikiwe isib. o Iwolintshi, i-aphula, i-aphula, iwolintshi. o Uvemvane, uvemvane, inyosi, inyosi. Lomsebenzi ungahlanganiswa nobuciko obubonakalayo isib. Ukudweba, ukupenda kwisifundo samakhono empilo.	abafundi izihlalo Izinto zokubala Izivalo zamabhodlela Noma iziphi izithombe ezinokutholakalaisib. Izikhangasi zasezitolo. Enza izithombe zibe ningi ukuqiniseka ukuthi zanele/zilingene.	Usuku olu-1

Isonto 22	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
3.3 **Izimo ezinhlangothi mbili (2-D)**	**Bona, khomba bese usho izimo ezinhlangothi mbili (2-D) ekilasini nasezithombeni** • **Gcizelela ulwazi abalithole esontweni 6 okufaka isikwele** Hlanganisa lomsebenzi nesifundo sokuvocavoca umzimba kwisifundo samakhono okuziphilisa. **Ukusebenzisa umzimba** - Dweba isikwele enkundleni yokudlala abafundi bagxume ngokulinganisene ezikweleni. Abafundi abasho lokhu:“ngigxuma ngkulinganisene esikweleni – uhlangothi olulodwa, izinhlangothi ezimbili, izinhlangothi ezintathu, izinhlangothi ezine- zonke izinhlangothi ziyefana” - Abafundi abalale phansi otshanini / kumata / phansi / bahlangane ngezinyawo benze isikwele esisodwa esikhulu. - Amaqoqo abafundi awalale phansi kumata benze izikwele ezincane. **Sebenzisa izinto eziphathekayo ezi3-D** - **Umdlalo**: uthisha udweba igridi enkundleni yokudlala. - Ubeka izimo zangempela isib.izimo noma izithombe zezimo kwibhuloki ngalinye. - Uthisha usho isimo. - Umfundi uphonsa isakana lokudlala kwibhuloki elinesimo esishiwo. **Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D)** Abafundi fanele bahlukanise phakathi kobungakho obuhlukene kanye nemibala yezikwele uthisha ayilungisile. abafundi abenze lokhu: - Khomba izikwele ngokuhlukana kobungakho ngokusha ukuthi iziphi izikwele ezinkulu kakhulu, eziphi ezincane kakhulu, iziphi izikwele eziwubungakho obuphakathi nendawo. - Khomba imibala yezikwele ezihlukene. **Hlela izinto ngokwesimo, ubungakho nombala** • Hlela izinto ezinhlonhlobo ngokombala kanye nezimo.	isikwele phansi /emhlabathini  Amasakana okudlala Izikwele zamakhadibhodi ezinkulu 2 esisodwa esiluhlaza sasibhakabhaka kanye nesisodwa esiluhlaza satshani. Izikwele zamakhadibhodi aphakathi nendawo esisodwa esiluhlaza sasibhakabhaka kanye nesisodwa esiluhlaza satshani. Izikwele zamakhadibhodi ezincane kakhulu 2 esisodwa esiluhlaza sasibhakabhaka kanye nesisodwa esiluhlaza satshani.	Usuku olu-1

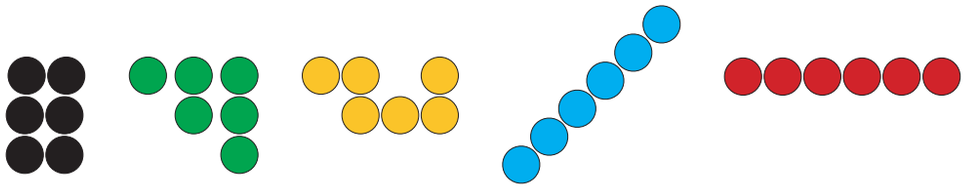
Isonto 23	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.1 **Bala izinto**	• **Gcizelela ulwazi/ umqondo abawuzuzile kufaka inombolo 5** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela koku 5. Bala uye phambili ubuye eye emumva kufinyelela koku 5 Ukubala sakuhuba kusuka 1-10 **Gcizelela ulwazi "okuningi nokumbalwa".** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 5. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa. **Ukusebenzisa umzimba** Badlala umdlalo: - Uthisha udlala izinsimbi isib.Izigubhu. - Abafundi bayanyakaza ekilasini. - Uma isigubhu siyeka ukukhala, uthisha ubiza inombolo phakathi koku 1 kanye noku 5. - Abafundi bazihlela ngamaqoqo amancane isib.uthisha ubiza inombolo 3 abafundi bazihlela babe amaqoqo ama 3. **Sebenzisa izinto eziphathekayo ezi3-D** - Uthisha ubeka inqwaba yezinto etafuleni.Abafundi baqagela inombolo yezinto ezisetafuleni. - Bayazibala emuva kokuqagela.	Amaculo nemilolozelo yezinombolo Isigubhu	Usuku olu-1 Khetha imisebenzi embalwa

Isonto 23	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.6 **Amaqhinga okuxazulula izinkinga**	**Badlala umdlalo:** Uthisha wakha isitebhisi sezinombolo phansi noma enhlabathini. Inombolo esesitebhisini imele inombolo yendlu umfundi ahlala kuyo. Uthisha ukhetha abafundi esebenzisa imilolozelo yokubala ukunika imiyalelo njengo: - Ngasosonke isikhathi ima eqandeni (zero) noma qala eqandeni. Batshele ukuthi iqanda lisho okungekho ukubala okuyokona kuqala koku 1. - Ngasosonke isikhathi bala ube unyakaza. - Uthisha uthi kumfundi: “usendlini yesibili, iyiphi indlu eza emuva - Kwanombolo 2?” - Eminye imiyalelo ingaba: “hamba uye kwidlu engunombolo 3.hlehla uye kwindlu engunombolo 2.hamba uye phambili kwindlu engunombolo 4.” - Uthisha uthi: “ngikwindlu engunombolo 3, iyiphi indlu eza emuva kweyami?” - Hamba uye kwindlu engunombolo 4.hamba inombolo eyodwa uye phambili.hamba inombolo ezimbili uhlehle. - Ima phakathi kwezindlu ezingonombolo 3 kanye no 5.	0 1 2 3 4 5 Imilolozelo yokubala: 1, 2, 3, 4, 5, Ngamzukwana ngibamba ufishi ephila 6, 7, 8, 9, 10 Wangiluma umunwe kabuhlungu ngawudedela	
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Sebenzisa inombolo 5 ezimweni ezijwayelekile** Ukuthuthukisa ukukhumbula, gqugquzela abafundi ukwenza lokhu: - Ukwazi sakuhuba izinombolo zocingo zomama noma obaba bazo. - Ukwazi sakuhuba amakheli asemakhaya abo. - Izinombolo zocingo/umakhalekhukhwini kufane kuphindaphindwe ngesikhathi sokubizwa kweregista.	Amakheli abo nezinombolo zocingo zikamama noma ubaba.	Usuku olu-1
3.2 **Izinto ezinhlangothi ntathu (3-D)**	• **Akha izinto ezinhlangothintathu usebenzisa izinto eziphathekayo** - Abafundi kufanele bakhe besusela kwisibonelo sikathisha. Ubanika lemiyalelo elandelayo: - Akha umbhoshongo onobude obulinganayo nobami. - Akha umbhoshongo omfishane kunami. - Akha umbhoshongo onobude ngokuthe xaxa kunowami - Abafundi mabakhe okwabo ngokukopisha isibonelo abasinikiwe sento eyakhiwe.	Amabhuloki okwakha Noma iziphi ezinye izinto aBangazisebenzisa.	Usuku olu-1 kuyaqhubeka

Isonto 23	Isikhathi sokufunda esiphakanyisiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	**Landela izinkomba** **ngokwenza iminyakazo endaweni ethize.(inkombandlela)** • **Thuthukisa umqodo wokulandela izimpawu "phambili nase emumva/uhlehle"** **Ukusebenzisa umzimba** - Njengesingeniso, gcizelela ulwazi abaluthole ngesonto 8.		Usuku olu-1
	Sebenzisa izinto eziphathekayo ezi 3-D - Dweba indilinga enkulu, unxantathu, noma isikwele ephepheni ulibeke phansi/kumata. - Abafundi abenze lokhu: - Qhuba ithoyizi eliyimoto ukudlala emigqeni abafundi bakutshele ukuthi imoto ihamba ibheke ngakuphi (phambili nasemuva, kwesobunxele nesokudla usebenzisa ingalo isimo esokunxele nesokudla)	Izimo ezinkulu ezidwetshwe ephepheni. Imoto yokudlala	
	Ukusebenzisa imifanekiso noma izithombe (izimo ezi 2-D) - Abafundi abathole ulwazi lomqondo wokuya phambili/emumva ngokukhombisa ukuthi into ibheke ngakuphi ezithombeni isib.indlela imoto ebheke ngakuyo uma ihamba, indlela umuntu ahamba ebheke ngakuyo.	Izithombe ezikhombisa ngokusobala indlela. Isib.Indlela imoto ebheke ngakuyo, indlela umuntu ayilandelayo.	

Isonto 23	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
4.2 **Ubude**	**Qhathanisa izinto ngokwenza usebenzisa lwagama afanele ukuchaza ubude** • **Qagela ubude bezinto ezihlukene** **ukusebenzisa umzimba** - Abafundi bazihlela ngokwabo kusukela komfishane kakhulu kuya komude kakhulu. Baqhathanisa ubude babo kanye nobaBangane babo. - Badlala umdlalo wesitimela, omude kakhulu wenza umnyakazo ngenkathi abasemuva bekopisha.shintsha umugqa ukuze omfishane kakhulu kube nguye oholayo manje. - Abafundi abaqhathanise izandla kanye nezinyawo zabo ukubona ukuthi ubani onezinde kakhulu/nezimfishane kakhulu. Qagela ulinganise: - Abafundi baqagela ukuthi iyiphi into ende kanye nemfishane isib.ubudebetafula noma isinqamu sentambo. - Qagela iyiphi into ende kakhulu noma emfishane kakhulu isib.umsizi noma amakhirayoni. - Abafundi baqagela ukuthi iziphi izinto ezingaba zinde kakhulu isib. Izinti zokuphuza isiphuzo ezixhumene ezi 2 noma izinsinjana ezincane zokubamba amaphepha/imali ezixhunyiwe zaba 3. - Buza imibuzo enjengo: “iyiphi ende ngokuthe xaxa/ende kakhulu, umsizi noma isinqamu sentambo?” njll. - Isiphi isihlalo esikude kakhulu kune desiki lathisha? - Mingakhi imisizi enganele uhlangothi olude lwedesiki lathisha? - Mangakhi amagxathu ongawathatha ukufika emnyango? - Mangakhi amabhokisi omentshisi agcwele inhlabathi angalingana lelibhokisi? - Zingaki izinkomishi sokukafaka amaqanda ezigcwele manzi ezingagcwalisa lengilazi? - Kunabafundi abane nezihlalo ezintathu. - Zingakhi izihlalo esizidingayo ngaphezulu?	Izinto ezinobude obuhlukene njenge: Umsizi, amakhirayoni, izinqamu zentambo (enye egoqene), itafula, izincwadi, izinti zokuphuza isiphuzo, izinsinjana zokubamba amaphepha/imali (esongene negoqiwe) njll.	2 Izinsuku noma imisebenzi embalwa ekhethiwe kuphela

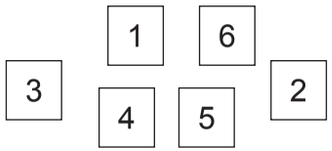
Isonto 24	**Isikhathi sokufunda esiphakanyisiwe:** Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.1 **Bala izinto**	• **Yethula incazelo yenombolo 6** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela kokuyi 6. Bala uye phambili ubuye uye emumva kufinyelela kokuyi 6 Ukubala sakuhuba kusuka 1-10 **Gcizelela ukubala ngokwesikhundla**: Uthisha upakisha izinto zokubala ezi-3 emugqeni.khomba into ngayinye ngenkathi ubala okokuqala, okwesibili, okwesithathu. **Gcizelela ulwazi "okuningi nokumbalwa".** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 6. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa. **Ukusebenzisa umzimba** Abafundi benza lokhu: - Bala kufike e 6 bekhuphuka izitebhisi. - Bala uye emumva behlela phansi - Dweba inombolo 6 enhlabathini uhambe/ugxume/weqe ngomlenze owodwa bayizungeze. - Shaya izandla izikhathi eziyi 6. - Khomba izinombolo 1 kufike 6 neqoqo lezimpawu zezinombol ezinkulu. - Ubeka anqwabelanise inombolo yendlu yakubo noma inombolo yocingo namakhadi ezimpawu zezinombolo ezinkulu.	Amaculo nemilolozelo yezinombolo. Benza iqoqo labo lezimpawu zezinombolo ezinkulu abafundi aBangakwazi ukusebenza ngazo.Bangafunda izinombolo zeminyaka yabo, izindlu zasemakubo, izinombolo zocingo noma omakhale khukhwini babazali nokunye okuningi. Iqoqo lezinombolo elifanayo lingasetshenziswa ukukhomba kanye nokulandelanisa izinombolo.	Usuku I

Isonto 24	**Isikhathi sokufunda esiphakanyisiwe:** Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.1 **Bala izinto**	**Sebenzisa izinto eziphathekayo ezi3-D** Bala izinto ezisekilasini.Abafundi abenze lokhu: Buza imibuzo efana no: “ - Iyiphi inombolo eza emuva kokuthathu, iyiphi inombolo emuva koku 5 njll?’” - Uthisha ubeka inqwaba yezinto etafuleni.abafundi baqagela inani lazo, emuva kwalokho bazibale. - thuthukisa ulwazi lokugcinwa kwezinombolo ngokuthi abafundi baqoqele ndawonye izinto zokubala noma eziphi izinto ngezindlela ezihlukene.  Uma kubalwa,inombolo yezinto ayithintwa ubungakho, isikhundla, noma ziyinhlobo efanayo.Isibonelo: - Hlela izinkinobho ezi 6, umsizi 6 ,ama hula huphu 6 , abafundi 6 njll. - Zibale usebenzisa izindlela ezihlukene isib. Zibale zendlalekile, zisondelene, zisemugqeni noma ezilakanyene/ezibekwe enye phezu kwenye. Hlukanisa abafundi babe amaqoqo ayisithupha.nika iqoqo ngalinye amabhuloki okwakha ayi 6. Abafundi benza lokhu: - Babala amabhuloki abo. - Bakha umbhoshongo ngamabhuloki abo ayi 6. Gqugquzela abafundi ukubala ama “bhuloki” njenga bakha umbhoshongo. - Uthisha uhamba iqoqo ngalinye afake amalebuli imibhoshongo yabo ngamakhadi ezinombolo.abafundi babala inani lemibhoshongo bekuphindaphinda izikhathi eziningana. - Khetha umfundi ukuphonsa idayisi.qiniseka ukuthi bonke abafundi bayalibona idayisi. abafundi babala inani lamachashazi bakhombe umbhoshongo ohambelana nawo.	Izinto ezisekilasini nasendaweni abaphila kuyo. Sebenzisa iznhlobo ezihlukene zezinsiza kufundisa ukuthola umqondo wokusebenzisa amasu ahlukene. Amabhuloki okwakha ayi 6 umfundi ngamunye	Usuku I

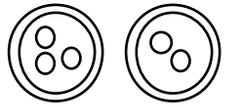
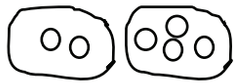
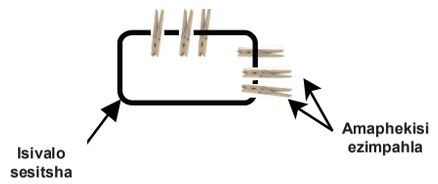
Isonto 24	**Isikhathi sokufunda esiphakanyisiwe:** Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	• **Bazi izimpawu zezinombolo bakhombe amagama ezinombolo ezifaka inombolo 6** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela kokuyi 6. Bala uye phambili ubuye emumva kufinyelela kokuyi 6 **Gcizelela ulwazi "okuningi nokumbalwa".** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 6. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa. **Ukusebenzisa umzimba** - Dweba inombolo 6 phansi abafundi bahambe bezungeza inombolo. - Dweba inombolo 6 enhlabathini, emoyeni. - Benza inombolo 6 ngobumba. - Abafundi abaqagele inani labafundi abadingekayo ukwenza inombolo 6 ngemizimba yabo. Benza unombolo 6 ngemizimba yabo. **Sebenzisa izinto eziphathekayo ezi3-D** - Beka inqwaba yezinto etafuleni.badlale ngezinombolo 1 kufike 6 isib. - Abafundi abaqagele ukuthi zingaki izinto ezibekiwe. - Babala izinto.	Amaculo nemilolozelo yezinombolo Izinto eziyi 6	Usuku olu-1
	Ukusebenzisa imifanekiso noma izithombe (izimo ezinhlangothi mbili) - Khomba amakhadi anezithombe ezi 6 kwinlanganisela yamakhadi uwaxhumanise nenombolo efanayo yezinto zokubala. - Khombisa amakhadi anezithombe ezi 6 uwaxhumanise nenani lamachashaza kanye nezinto zokubala ellingana nazo. - Khombisa ikhadi elinamachashazi ayi 6 ulixhumanise nophawu kanye nezinto zokubala ezilinganayo. - Bona kwinhlobo ezihlukene zamakhadi lawo anenomblo 6 uwaxhumanise nophawu kanye nezinto zokubala eziyi 6.	Amakhadi ezithombe namachashazi afaka inombolo 6 isib.  izinto zokubala ezinhlangothintathu 3-D. 	

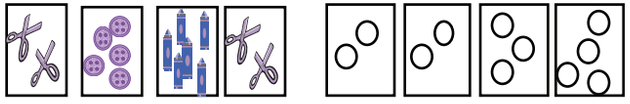
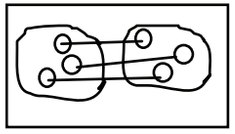
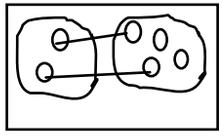
Isonto 24	**Isikhathi sokufunda esiphakanyisiwe:** Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.13 **Ukuhlanganisa nokususa**	• **Xazulula ngokukhuluma izinkinga zezibalo zokuhlanganisa nokususa nezimpendulo kufike 6** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela kokuyi 6. Bala uye phambili ubuye uye emumva kufinyelela kokuyi 6 Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa. **Ukusebenzisa umzimba** **Izibonelo** 1. Uthisha ubiza abafundi aba 3 beze phambili. Abafundi bayababala, uthisha ubiza abanye aba 2 abuze: Bangaki abafundi bebonke?" 3 kanye 2 → 5. (uthisha uthi: 3 kanye 2 kusinika 5) 2. Uthisha upakisha izihlalo ezi 2. Wengeza 2 ngaphezulu. Zingaki izihlalo manje? 2 kanye 2 →4. 3. Uthisha uphakamisa isandla esisodwa athi: "bala iminwe yami. Uma ngifihla isithupha sami mingaki iminwe oyibonayo? 5 ususe 1 → 4. 4. Abafundi mababale iminwe esandleni esisodwa. Fihla isithupha sakho, mingaki iminwe oyibonayo? 5 ususe 1 → 4	Amaculo nemilolozelo yezinombolo. abafundi izihlalo	
	Sebenzisa izinto eziphathekayo ezi3-D Abafundi bapakisha izinto zokubala ezi 6 benze lokhu okulandelayo: • Uthisha unikeza umfundi ngamunye izinto zokubala ezi 6. • Uthisha unika umyalelo abafundi baphendule isib. Pakisha izinto zokubala ezi 2, engeza ezinye ezi 3. • Zingaki zizonke? u 3 → 5. • Bala izinto zokubala ezi 4. Bala okubili uqhubeka usuka koku 4. Kungaki onakho manje? 4 kanye 2 → 6. • Bala bonke ubuhlalu onabo.uma umbhoza ubuhlalu obubili ngesandla,bungaki ubuhlalu obubonayo ? 6ususe 2 → 4.	Ubuhlalu noma izinto zokubala.	

Isonto 24	**Isikhathi sokufunda esiphakanyisiwe:** Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.13 Ukuhlanganisa nokususa	• **Xazulula izinkinga zezibalo zamagama ukhuluma ezifaka inombolo 6.** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela kokuyi 6. Bala uye phambili ubuye uhlehle kufinyelela kokuyi 6 **Gcizelela ulwazi "okuningi nokumbalwa".** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 6. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa.	Amaculo nemilolozelo yezinombolo	Usuku olu-1
	Sebenzisa izinto eziphathekayo ezinhlangothintathu **Izibonelo:** 1. UMphounamakhekhe ama 4. USimo umnika ama 2 ngaphezulu. Mangaki amakhekhe uMpho anawo ewonke? 2. UNomusa unodoli aba 3 kanti uLindiwe unodoli aba 2. Ubani onodoli abaningi? Bangaki odoli uNomusa anabo ngaphezu kodolo boLindiwe? 3. Kunezinyoni ezi 5 ocingweni.ezi 2 zandiza zahamba. Zingaki izinyoni ezisele? 4. USimo unezimoto zokudlala eziyi 6 . UThobile unezi 4, zingaki izimoto zokudlala uThobile anazo ngaphansi kwezikaSimo? 5. Ingane eyodwa inekhala elilodwa. Izingane ezintathu zinamakhala ama …… 6. Ingane eyodwa inezinyawo ezimbili. Izingane ezintathu zinezinyawo ezi……. 7. Ingane eyodwa inezingalo ezimbili. Izingane ezimbili zinezingalo ezi….. 8. Ingane eyodwa inomlomo owodwa. Izingane ezintathu zinemilomo emi…..	Izinto zokubala Sebenzisa izinhlobonhlobo yezinsiza kufundisa ukunika umqondo wokusebenzisa amasu ahlukene.	
3.2 izinto ezinhlangothi ntathu (3-D)	• **Akha isakhiwo esinhlangothintathu 3-D ususela emdwebeni noma ekhadini elinesithombe** - Abafundi abenze lokhu: - Akha isakhiwo ususela emdwebeni noma esithombeni. - Abafundi bantshuntsha ubuhlalu ngokulandelana okusesithombeni osinikeziwe.	amabhuloki noma iziphi into zokwakha ubuhlalu, izintambo zezicathulo izinhlobo zamakhadi adwetshiwe akhombisa ukulandelana kobuhlalu.	

Isonto 25	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.1 **Bala izinto**	• **Gcizelela ulwazi abaluzuze/thole kwisonto 24 okufaka inombolo 6** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela kokuyi 6. Bala uye phambili ubuye uye emumva kufinyelela kokuyi 6 Ukubala sakuhuba kusuka 1-10 **Gcizelela ulwazi "okuningi nokumbalwa".** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 6. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa	Amaculo nemilolozelo yezinombolo	Usuku olu-1
	Ukusebenzisa umzimba Badlala umdlalo: Uthisha ubeka phansi ikhadibhodi elikhulu lezimo zezinombolo noma amakhadi afaka izinombolo 1 kufike 6 ngokulandelana kwazo. Uthisha unika abafundi imiyalelo efana no: - Hlala kunombolo 6. - Beka uzwane lakho kunombolo 3. - Gijima uzungeze unombolo 2 izikhathi ezintathu. - Gxuma weqe unombolo 1. - Uthisha angahlwanyela amakhadi anezimpawu zezinombolo unike imiyalelo efana nale engenhla.	Iqoqo lamakhadibhodi amakhulu anezimpawu zezinombolo. Ungafaka umbala kulezigcezu zoplasitiki oqinile noma ikhadibhodi. 	
	Sebenzisa izinto eziphathekayo ezinhlangothintathu Abafundi benza lokhu: - Bala izinto ekilasini ufaka inombolo 1 kufike 6. - Uthisha ubeka inqwaba yezinto phezu kwetafula, abafundi abaqagele inani lezinto eziphezu kwetafula ,emuva kwalokho bazibale.		

Isonto 25	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	• **Ukubona nokukhomba izimpawu zezinombolo namagama ezinombolo ezifaka inombolo 6** **Ukukhuluma:** bala izinto zansukuzonke kufinyelela kokuyi 6. Bala uye phambili ubuye uhlehle kufinyelela kokuyi 6 **Gcizelela ulwazi "okuningi nokumbalwa".** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 6. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa.	Amaculo nemilolozelo yezinombolo	Usuku olu-1
	Ukusebenzisa imifanekiso noma izithombe (izimo ezinhlangothi mbili) - Khomba abafundi amakhadi anamachashazi ayi 6 uwaxhumanise nezinto zokubala eziyinani elilinganayo. - Dlala imidlalo ekhomba uphawu lwenombolo ethize phakathi kwezinye uyixhumanise nenani elilinganayo lezinto zokubala. - Dlala imidlalo ekhomba igama lenombolo ethize phakathi kwezinye uyixhumanise nenani elilinganayo lezinto zokubala. - Dlala imidlalo ngokuxhumanisa inani lezinto zokubala negama lenombolo, uphawu lwenombolo kanye namakhadi ezithombe. - Bhala phezu kwephepha elibonakalayo ukopisha unombolo 6 ngekhirayoni.	Izinto noma izinto zokubala Amakhadi anezimpawu zezinombolo kanye namagama ezinomboloisib. 	

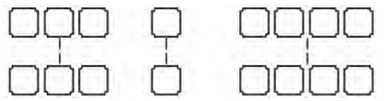
Isonto 25	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Hlela uqhathanise izinto eziqoqiwe usebenzise “okuningi kuno/okuncane kuno” kanye “okulingana no” kufike kunombolo 6** **Ukubala okusakuhuba:** bala izinto zansukuzonke kufinyelela kokuyi 6. Bala uye phambili ubuye uhlehle kufinyelela kokuyi 6 **Gcizelela ulwazi “okuningi nokumbalwa”.** Shaya izandla izikhathi eziningi …… IMA Shaya izindla izikhathi ezimbalwa. Uthisha ushaya izandla izikhathi ezi 6. Buza umbuzo iyiphi inombolo yokushaya ebeningi / mbalwa.	Amaculo nemilolozelo yezinombolo	Usuku olu-1 Khetha imisebenzi embalwa
	Ukusebenzisa umzimba - Uthisha ubeka ohula hoops phansi. - Ubiza abafundi aba 3 bame phakathi kweyodwa abafundi ababili bame kwenye. - Iyiphi ihola enabafundi abaningi kuyo?	amahola 2 	
	Sebenzisa izinto eziphathekayo ezi 3-D - Abafundi bahlala kumata benza izidleke (isidleke) ezimbili ngovolo. - Uthisha unika imiyalelo isib.abafundi bafaka izinto zokubala ezi 2 esidlekeni esisodwa nezi 4 kwesinye isidleke.isiphi isidleke esinokuningi? Isiphi isidleke esinokumbalwa? “Isiphi isidleke esinokuningi”? - Kuphinde usebenzisa izinombolo kufike 6. - Uthisha usebenzisa isivalo sesitsha se-ayisikrimu.ubambe isivalo ngamaphekisi ama 3 ngenhla kanye nama 3 ngakwesokudla kwesivalo. Imaphi amaphekisi amaningi kunamanye, noma ayalingana? Abafundi bangawenza lomsebenzi ngamaqoqo iqoqo ngalinye linesivalo namaphekisi alo.	Izingcezu ezi 2 zovolo kumfundi ngamunye izinto zokubala  	

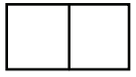
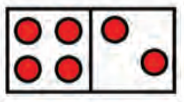
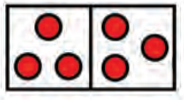
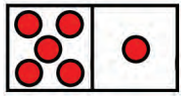
Isonto 25	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
	Ukusebenzisa imifanekiso noma izithombe (izimo ezi2-D - Uthisha ukhombisa amakhadi anamachashazi kanye nezithombe anezinombolo ezihlukene kuwo.  - Abafundi abaqhathanise amakhadi anezithombe namachashazi babone “okuningi kuno”, “okuncane kuno” kanye “okulingana noku” . Abafundi badweba izidleke ezimbili ocezwini lwephepha.ngokomyalelo bapakisha izinto zokubala bazixhumanise nezinto zokubala ezikwisidleke ngasinye ngekhirayoni. Thuthukisa umqondo ofana nokuhlukanisa ngokulinganayo isib.  Yenza amaqoqo ezinombolo eziphelele anezimpendulo ezifaka izinsalela isib. 	Amakhadi ezithombe namachashazi Iphepha elu A4 kanye namakhirayoni Izinto zokubala	
3.3 **Izimo ezinhlangothi mbili (2-D)**	**Bona ukhombe usho izimo ezinhlangothi mbili ekilasini nasezithombeni** • **Benza baqede amaphazili abo ama 5** Abafundi benza lokhu: - Badweba isithombe ephepheni. - Uthisha udweba imigqa ngemuva kwemidwebo yabafundi. - Umfundi usika isithombe sakhe emigqeni ayinikiwe. - Umfundi uqeda iphazili yakhe.	amakhirayoni iphepha amakhirayoni isikele  imvilophu noma isikhwama sokuzenzela ufake amaphazili	Usuku olu-1

Isonto 25	**Isikhathi sokufunda esiphakanyisiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esilinganisiwe**
5.1 **Qoqa bese uhlela**	• **Inombolo yezinhlavu zamagama egameni lomfundi** **Ukuxazululwa kwezinkinga: yethula inkinga kubafundi:** “Ngabe amgama anezinhlavu eziyisithupha yiwona adumile? Singakuthola kanjani lokho? Yiluphi olwazi okufanele siluqoqe?” **Qoqa ulwazi** - Abafundi babala inani lezinhlavu emagameni abo emalebulini amagama enziwe uthisha. - Uthisha uphakamisa ikhadi elinenombolo evumelana nenombolo yezinhlavu ezisegameni lomfundi abuze: ubani onezinhlavu ezi 4 egameni lakhe ephakamise ikhadi elinophawu lwenombolo 4? Kuphinde usebenzise zonke izinombolo.		
5.2 **Okumele izinto eziqoqiwe**	**Dweba igirafu** - Uthisha udweba legirafu elandelayo uma ephakamisa izinombolo:		
5.3 **Xoxa bese usho ngezinto eziqoqiwe**	**Funda bese uhumusha ithebula** - Iyiphi inombolo ejwayelekile yezinhlavu egameni? - Mangaki amagama anezinhlavu ezingaphezu koku 5? Amagama amabili anezinhlavu eziyisithupha. - Mangaki amagama anezinhlavu ezimbalwa kunezi 5? Amagama amathathu		

Izinhlavu 3	**Izinhlavu 4**	**Izinhlavu 5**	**Izinhlavu 6**
Ann **Sam**	**Musa** **Seni** **Simo**	**Hlelo** **Tholi** **Zethu** **Khaya** **Bheki**	**Nomusa** **Themba**
2	**3**	**5**	**2**

Isonto 26	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.1 **Bala izinto**	• **Ukugcizelela ulwazi olutholwe ngokufaka izinombolo-1 kuya 6** **Ukukhuluma:**ukubala izinto ufike ku-6. Ukubala uya phambili nokubala uye emumva ufike ku- 6. Ukugcizelela ukubala ngakubala usebenzisa umlolozelo wezinombolo **Ukugxilisa ulwazi "lokuningi "no"kumbalwa"** Shaya ihlombe izikhathi eziningi ….IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya izandla kuze kube ka-6 Buza umbuzo ukuthi yiliphi ihlombe elikhale kaningi /kamncane **Ukusebenzisa umzimba** Yenza abafundi ba; - Benza isimo sophawu lwenombolo ngemizimba yabo. - Phakamisa iminwe ngokulandela umyalo kathisha. - Benza uphawu lwenombolongokusebenzisa isinqamusentambo noma inhlama yokudlala. - Yizwa ikhalibhodi lezimo zezinombolo esikhwameni bese uyayisho leyonombolo - Bhala izimpawu zezinombolo- 1 kuya 6 esihlabathini noma emoyeni njll.	Amaculo nemilolozelo ezinombolo Amasethi amabili ekhalibhodi lezimo lezinombolo "nesikhwama sokuzwa"	Usuku olu-1

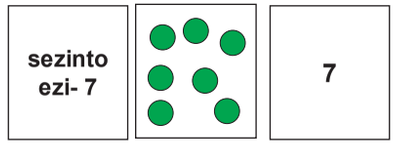
Isonto 26	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.1 **Bala izinto**	**Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu-3-D** Yenza abafundi ba; - Bala izinto ekilasini ufake nezinombolo 1 to 6 - Bala izinto zokubala ufike kunombolo-6. - Beka amakhubhu axumanayo ambalwa noma izinto zokubala ezinombala uzimise umugqa phezu kwetafula. - Abafundi baqondanisa amakhubhu nemibala usebenzisa amakhubhu axumanayo noma izinto zokubala - Isibonelo.  - Yenza amaqembu anobude obuhlukene.abafundi baqondanisa ngokwamanani. 	Izinto ekilasini Izinto zokubala ezinombala noma amakhubhu axumanayo	
1.3 **Izimpawu namagama ezinombolo**	• **Ukwazi izimpawu zezinombolo nokubona amagama ezinombolo ezifaka oku -1 kuya koku 6** **Ukukhuluma;** Ukubala izintokusuka ufike ku-6 nsukuzonke. Ukubala uya phambili nokubala uya emumva-6. **Ukugcizelela ulwazi “lokuningi “no”kumbalwa”** Shaya ihlombe izikhathi eziningi ….IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya izandla kuze kube ka-6 Buza umbuzo ukuthi yiliphi ihlombe elikhale kaningi /kamncane **Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D** Asidlale umdlalo: - Uthisha ubhala amagama ezinombolo kwenye ingxenye yekhadi bese ubhala uphawu lwenombolo kwenye inxenye yalo lelikhadi ufake izinombolo-1 kuya 6 (yenza amasethi ambalwa) - Abamfundi bafunda amagama ezinombolo bese beqagela uphawu lwenombolo. - Baphendulaikhadi balibhekise phezulu bese bezibonela impendulo eyiyo.	ngaphambili ngemumua isithupha 6 Amakhadi afaka izinombolo 1-6 namagama ezinombolo ngakwenye ingxenye yekhadi nezimpawu zezinombolo kwenye ingxenye. (yenza amasethi ambalwa ukuze umfundi ngamunye abe nekhadi).	Usuku olu -1

Isonto 26	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
1.7 **Ukuhlanganisa nokususa**	• **Ukuxazulula izinkinga ngokukhuluma ezimweni ezinikeziwe bese isixazululo okufaka inombolo isi-6** **Ukukhuluma:**ukubala izinto ufike ku-6 nsukuzonke. ukubala uya phambili nokubala uye emumva ufike ku-6 ukugcizelela ubala ngakubili usebenzisa umlolozelo wezinombolo **Ukugcizelela ulwazi "lokuningi "no"kumbalwa"** Shaya ihlombe izikhathi eziningi ….IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya izandla kuze kube ka-6 Buza umbuzo ukuthi yiliphi ihlombe elibe liningi /mncane	Amaculo nemilolozelo yezinombolo	Usuku olu-1
	Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D 1. Nika umfundi iphepha A4 elinomugqa odwetshwe wavundla kanye nezinto zokubala ezi-6 isib  2. Tshela abafundi baphonse izinto zokubala ngokucophelela phezu kwephepha lelo bese bechaze ukuthi ziwe kanjani.isib.  4 no 2 →6 (4 no 2 kusinika-6)  3 no 3→6 3. Phinda ngezinombolo-1 kuya 5.  5 no 1→6 4. **Ukuxazulula inkinga:** bachaza ukuthi bayixazulule kanjani lenkinga. 5. Yenza kanje nasekuxazululeni izinkinga zezibalo zokususa.	6-izinto zokubala kumfundi ngamunye A4- iphepha elinomugqa ovundlilephakathi nendawo	

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Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
4.4 **Umthamo/ okumumethwe**	• **Ukwethula ulwazi lokulinganisa umthamo ngokuqhathanisa ukuthi izitsha ezehlukene zingamumatha into engakanani. Isib.** - **“akunalutho/kugcwele”** - **“kungaphezulu/kungaphansi”** - **kuningi, kuncane** Ukwethula umthamo kubafundi ngokubuza ukuthi yisiphi isitsha esingamumatha okuningi. Abafundi bayaqhathanisa ukuphakama kunokuphakathi. Isib.uma ubuza, isitsha esiphakeme noma isitsha esifishane, abafundi abaningi bazokhetha isitsha eside noma ngabe isitsha esifishane singamumatha okuningi okusaketshezi. **Ukunyakazisa umzimba** “okuningi kune/okuncane kune” - Ukusebenzisa isitsha esisodwa njengesikali esilinganisiwe isib.inkomishi yeyogadi,Nika abafundi izinhlobo ezahlukene zezitsha. - Yenza abafundi ba: - Thola ukuthi yiziphi izitsha ezimumathe “okuningi”okumumethe “okuncane” kunesikali esilinganisiwe njenge inkomishi yeyogadi.yisiphi isitsha esimumatha okuningi?Yisiphi isitsha esimumatha kancane? Nika abafundiisipuni nebhakede elinesihlabathi nesipuni esizokukha isihlabathi sifakwe emakini Yenza abafundi ba: - Bala ukuthi zingaki izipuni zesihlabathi ezingagcwalisa inkomishi. Ucwaningo lungenziwa lube lukhunyana ngokusebenzisa izitsha eziningi isib.inkomishi, ingilazi yeplastiki nebhodlela elincane. - Yenza lomsebenzi ngokusebenzisa izinkomishi.	Amanzi(ngesikhathi sokudlala ngamanzi) nasesihlabathini (ngesikhathi sokudlala esihlabathini) yizindawo ezifanele zokuthuthukisa umthamo. Izinhlobo zezitsha ngokwezimo nobungako obehlukene. Inkomishi yeyogadi Ibhakede lesihlabathi inkomishi isipuni	Usuku olu -1 khetha kuphela umsebenzi owodwa noma emibili

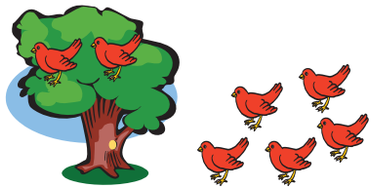
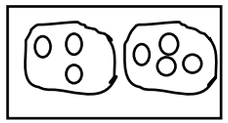
Isonto 26	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Isikhathi esibekelwe**
3.1 **Isikhundla indawo nokubukeka kwayo**	**Ukuchaza into eyodwa noma ngaphezulu enhlangothi ntathu 3-D nobudlelwano bazo** • **Izikhundla zezinto ezimbili noma ngaphezulu zinobudlelwano obunjani kwenye nenye nakuyona** **Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D** **Ukusebenzisa ibhodi lamaphekisi:** Okokuqala yenzaumfundi asebenzise isandla sangakwesokudla bese kulandela leso sangakwesokunxelebese besebenzisa zombili kanyekanye ukubeka amaphekisi ebhodini. - Uthisha utshela abafundi ukuthi abekwa kuphi amaphekisi.isib. emgqeni ophezulu emgqeni ongezansi ngasengxenyeni yesokunxele ngasengxenyeni yesokudla phakathi nendawo Yenzaabafundi ba: - Benza izimo ebhodini lamaphekisi amaphekisi anombala. - Uthisha wenza iphethini elula ebhodini lamaphekisi akhe bese abafundi bekopisha iphethini yakhe kumabhodi abo. - Abafundi bakopisha iphethini isuselwa ekhadini elinephethini edwetshwe kulo.	Ibhodi lamaphekisi kumfundi ngamunye noma ngamaqembu Amakhadi anaphethini adwetshwe kuwo. 	Usuku olu -1

Isonto 27	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Amanothi Acacisayo**
1.1 **Bala izinto**	• **Ukwethulwa kokuqonda inombolo-7** **Ukukhuluma:** Ukubala izinto ufike ku-7 nsukuzonke. Ukubala uya phambili nokubala uye emmva ufike ku-7. Ukubala okusakuhuba 1-10 **Ukugcizelela ukubala ngezikhundla**: Isha upakisha izinto ezi-3 emgqeni.ukhomba into eyodwa ngesikhathi ebala *owokuqala,owesibili owesithathu,owesine*. **Ukugxilisa ulwazi "lokuningi "no"kumbalwa"** Shaya ihlombe izikhathi eziningi …. IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya izandla kuze kube ka-7 Buza umbuzo ukuthi yiliphi ihlombe elibe liningi /mncane **Ukunyakazisa umzimba** - Uthisha uhlukanisa ikilasi ngamaqembu.Unika iqembu ngalinye amabhola ayi-7 enziwe ngamaphepha. - Yenza abafundi baphonse amabhola kubhasikidi. Abafundi babala bephimisela ngesikhathi bephonsa amabhola. - Bala izikhawu uthsha eshaya phezu kwetafula bese bemlingisa. - Ukubala ulandela isigqi esezitebhisi esijwayelekile ngesikhathi abafundi behamba behla ngezitebhisi/ilele bekheleza bengena bephuma kumahula hubhu. - Beshaya ngezinyawo belandela leso sigqi esijwayelekile.	Imilolozelo namaculo ezinombolo Amabhola ngephepha Obhasikidi	Usuku olu -1

Isonto 27	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Amanothi Acacisayo**
1.1 **Bala izinto**	**Ukusebenzisa izinto ezphathekayo ezinhlangothi ntathu 3-D** Uthisha ubeka inqwaba yamabhuloki okwakha phansi phakathi nendawo. Ubanika umyalelo njengo; - Thatha amabhuloki ama-3 enqwabeni. - Thatha amabhuloki ama-4 enqwabeni bese ubuyisela amabili emumva njll - Uthisha ubeka inqwaba yezinto phezu kwetafula.Yenza abafundi baqagele ukuthi zingaki izinto ezisenqwabeni. Abawabale uma sebeqagelile. - Ukuthuthukisa ukuqaphela ukgcina kwezinombolo ngokutshela abafundi bapakishe izinto kokubala eziyisikhombisa noma ngabe iyiphi intongezindlela ezifanele. Isib.  Ngesikhathi bebala, inani lezinto aliphazamisekile ubungako bazo noma isikhundla noma kuyizinto ezifanayo. Isibonelo: - Ukuhlela izinkinobho ezi-7, amapensela ayi-7, amahula hubhu ayi-7, abafundi abayi-7 njll. - Ukubala ngezindlela ezehlukene isib. zibale zihlukaziwe,ziqoqelwe ndawonye,uzibeke emgqeni noma zipakishwe.	Amabhuloki okwakha noma amabhuloki eLego	
	Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D Masidlale umdlalo: - Uthisha uyadweba noma unamathelisa izithombeengxenyeni eyodwa yekhadi nokudweba inani lamachashazi ngakwenye ingxenye yekhadi ufaka izinombolo 1 kuya-7 (yenza amasethi ambalwa) - Uvezela umfundi ikhadi lesethi elilodwa. - Abafundi babala inani lezithombe ekhadini - Liphendule ikhadi ngakwenye inxenye bese ubala inani lamachashazi. - Uthisha uphakamisa elinye lamakhadi elinamachashazi - Abafundi baqondanisa amakhadi abo nenani lamachashazi kathisha. - Uthisha uphakamisa isethi lamakhadi elinezimpawu zezinombolo. - Abafundi baqondanisa amakhadi namakhadi ezimpawu zezinombolo kathisha. - Umfundi ophethe ikhadi elifanele uyasukuma bese ebala inani lezithombe ngokokusakuhuba	**Amasethi ambalwa** ezithombe, amachashazi nezimpawu zezinombolo kusuka ku-1-7  	

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isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Amanothi Acacisayo**
1.13 Ukuhlanganisa nokususa	• **Ukuxazulula izinkinga ngokukhuluma ezinikeziwe ngokuhlanganisa nokususa ezifaka inombolo-7** **Ukukhuluma:** Ukubala izinto ufike ku-7 nsukuzonke. Ukubala uya phambili nokubala uye emmva ufike ku-7. **Ukugxilisa ulwazi "lokuningi "no"kumbalwa"** Shaya ihlombe izikhathi eziningi ….IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya ihlombe izikhathi ezi-7 Buza umbuzo ukuthi yiliphi ihlombe elibe liningi /mncane	Amaculo nemilolozelo ezinombolo	Usuku olu-1
1.6 **Amasu okuxazulula izinkinga**	**Ukusebenzisa umzimba** - Ukusebenzisa ilele lezinombolo lilele phansi (okuvundlile) - Ngasosonke isikhathi qala ngo-0. Bala ngesikhathi unyakaza. Uthisha ubuza abafundi: - Iyiphi inombolo elele phakathi kuka-4 no-6? Abafundi bazijwayeza ukusebenzisa ilele lezinombolo. - Yiziphi izinombolo ezilele phakathi kuka-2 no-5? - Ngokubona kwakho yenza abafundi bazi inombolo-7 ngokusebenzisa imizimba yabo benyakaza. **Ukusebenzisa izinto eziphathekayo ezinhlangothi mbili - 3-D** Nika umfundi ngamunye ubuhlalu obu-7 noma izinto zokubala Buza imibuzo njenga; - Susa into yokubala-1 kwenye ingxenye (ngokwesinxele).Uma sengeza ngenye into yokubala uyisa ngakwesokunxele, sezingaki esinazo manje? - 1 no 1→2 (uthisha uthi: 1 no 1 kwenza 2) - Susa izinto zokubala-4 ngakwesokunxele. Uma sengeza ngoku-2 ngaphezulu ukusa ngakwesokunxele, kungaki esinakho? - 4 no 2→6 - Unezinto zokubala ezi-5 bese ususa ezi-2, zingaki ezisele?	0 1 2 3 4 5 6 7 Ubuhlalu noma izinto zokubala Izinto zokubala	

Isonto 27	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Amanothi Acacisayo**
1.11 **Imali**	• **Bona bese ukhomba imali engamaphepha yase Ningizimu Afrika** - Ukusebenzisa imali yamaphepha isib.. R10, R20, R50, R100, R200 - Yenza abafundi bazu umehluko wezithombe zezilwane ezisemalini yamaphepha - Ukwenza samdlalo ngemali ekhoneni lendlu.	Izibonelo zemali yangempela yamaphepha R10, R20 no R50 (noma imali yokudlala)	Usuku olu-1
1.9 **Ukwenza amaqoqo nokwabelana okuholela ekuhlukaniseni**	• **Ukuxazulula izinkinga zezibalo zamagama Ukukhuluma ngokwesimo (izibalo zengxoxo) ezifaka;** - **Ukwabelana okulinganayo,** - **Amaqoqo ezinombolo eziphelele kanye** - **Nezimpendulo ezinezinsalela ufike-7** **Ukukhuluma:** ukubala izinto ufike ku-7 nsukuzonke Ukubala uya phambili nokubala uye emumva ufike ku-7 **Ukugxilisa ulwazi “lokuningi “no”kumbalwa”** Shaya ihlombe izikhathi eziningi …. IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya ihlombe izikhathi ezi-6 Buza umbuzo ukuthi yiliphi ihlombe elibe liningi /mncane	Amaculo nemilolozelo ezinombolo	Usuku olu -1 Khetha owodwa noma emibili imisebenzi yokunyakazisa umzimba ngezinto eziphathekayo nezimo nezithombe.

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isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Amanothi Acacisayo**
1.9 **Ukwenza amaqoqo nokwabelana okuholela ekuhlukaniseni**	**Ukunyakazisa umzimba** Ukwakha amaqembu usebenzisa abafundi: **Izibonelo**: 1. Yenza abafundi bakhe amaqembu nga-2, 3, 4, 5 ne 6.Bala ukuthi Bangaki eqenjini. 2. Dweba izimo ezinkulu ngezinto eziphathekayo noma esihlabathini.Abafundi bakha iqembu isib. abafundi aba-4ngaphakathi esimweni. 3. Ngesikhathi sokudla uthisha uthi.”Ningahamba ngamaqembu nga-4 ukuyogeza izandla”kunokuba athi “abafundi abane Bangahamba bayogeza izandla” 4. Khetha abafundi aba-7 usebenzisa umlolozelo wezinombolo 5. Yenza abafundi benze sengathi bayizinyoni bese benza ”okusasihlahla” besebenzisa into aBangacaca kuyo ngaphandle noma izitulo namatafula ngaphakathi 6. Uthisha uthuma izinyoni ezi-2 (esihlahleni” (abafundi aba-2 bacaca kulokho abakunikiwe). Kwalandela enye inyoni yaya esihlahleni.”Zingaki izinyoni ezisesihlahleni manje, zingaki izinyoni ezisele phansi?. 7. Phinda lomsebenzi kuwo wonke amaqembu usebenzisa izinombolo-1 kuya ku 7	Ukusebenzisa izinsiza ezahlukene ukukunika imiqondo ehlukene ukuyisebenzisa kumqhinga ahlukene Izinto zokucaca noma amatafula nezitulo. 	
	Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D **Izibonelo**: 1. Uthisha unika abafundi izinto zokubala.Yenza abafundi bakhe amasethi ezinto zokubala nga-4 isethiYenza abafundi bakhe amasethi ezinto zokubala nga-3 isethi”Zingaki izintozokubala onazo esethini elisha? 2. Abafundi mabadwebe izindilinga ezmbili ephepheni.Umyalelo ophuma kuthisha, abafundi bapakisha izinto zokubala ngamasethi amabili kwenye isethi kube kuningi kunenye. Buza imibuzo njenga;Yiliphi isethi elinokuningi/nokuncane?	Izinto zokubala Iphepha nekhilayoni lomfundi ngamunye izinto zokubala 	

Isonto 27	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
isihloko	**Amanothi Acacisayo**	**Izinsiza ezinconyiwe**	**Amanothi Acacisayo**
4.4 **Umthamo/ okumumwethwe**	**Ukuqhathanisa nokuhlela izinto eziphathekayo usebenzisa amagama afanele ukuchaza:** a) umthamo b) akunalutho, kugcwele, kungaphansi, kungaphezulu,okuningi, okuncane • **Ukugcizelela ulwazi olutholwe esontweni lesi-26 ukufaka umthamo** **Ukukhuluma:** Ukubala izinto ufike ku-7 nsukuzonke Ukubala uya phambili nokubali uye emumva ufike ku-7. Ukubala ngokokusakuhuba 1-10 **Ukugxilisa ulwazi "lokuningi" no "kumbalwa"** Shaya ihlombe izikhathi eziningi …. IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya iihlombe izikhati ezi-6 Buza umbuzo ukuthi yiliphi ihlombe elibe liningi /mncane **Ukunyakazisa umzimba** Yenza abafundi ba: - Lungisa izitsha ezimbili noma ezintathu ezingenalutho ezehlukene umthamo ongafani. Ngamanye amagama isiphi isitsha esizomumatha okuningi noma okuncane? Abafundi bazohlola ukuqagela kwabo ngokuthela amanzi ngezinkomishi ezitsheni ezingenalutho bese bebala ukuthi yisiphi isitsha esimumatha amankomishi amaningi noma amancane.Yandisa inani lezitsha ezingenalutho ezizokwenza kube lukhunyana. . - Abafundi Bangasebenzisa inkomishi njengesikali bese becaBanga ukuthi mangaki amankomishi erayisi noma ubhontshisi noma isihlabathi eesizosetshenziswa ukugcwalisa lezozitsha ezingenhla. - Hlela izitsha ezifanayo (isib, amabhakede endaweni yesihlabathi) kusukela kwesincane kuya kwesikhulu. - Nika abafundi izinhlobo zezitsha ezahlukene (ubungako nezimo ezahlukene) bese ubuza imibuzo enjenga; o "Yisiphi kulezizitsha uma ucaBanga, esingamumatha isihlabathi/amanzi amaningi? o Qagela uma uthela amanzi kwesinye isitsha ubuye uwathele kwesinye, azokwazi yini ukusigcwala?" - Yenza abafundi bazitholele ukuthi kwenzakalani uma isitsha sithelwa amanzi angagcweli bese uphonsa izinto ezincane isib.faka izinto ezilula ezihlanzekile, amabhuloki eLego, amabhuloki eplastiki. Abafundi bazokujabulela ukudlala umdlalo wokuqagela lapho ukuthi isiphi isitsha esimumatha okuningi bese bebheka ukuthi ubani ophumelele waqagela kahle.(uthisha uyasho ukuthi izinto ezintantayo angeke ziholele ekuphakameni kwamanzi.)	Amanzi (ngesikhathi sokudlala ngamanzi) nangesihlabathi (ngesikhathi sokudlala ngesihlabathi endaweni yesihlabathi) izindawo ezifanele zokuthuthukisa umthamo. Amaculo nemilolozelo yezinombolo Izinhlobo zezitsha ezahlukene ngokwezimo nangobungako inkomishi inkomishi irayisi ubhontshisi amabhakede anobungako obehlukene endaweni yesihlabathi izinhlobo zezitsha ezehlukene ngezimo nobungako amanzi isihlabathi izinto njengezinto ezilula ezihlanzekile, amabhuloki eLego,amabhuloki eplastiki.	Izinsuku 2 Ungakhetha imisebenzi embili noma emithathu

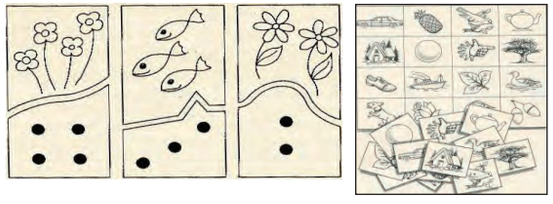
Isonto 28	**Isikhathi sokufunda esihakanyisiwe:** **Umsebenzi kathisha olungiselelwe iklasi, uthatha imizuzu okungenani engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsizakufubdisa ezinconyiwe**	**Isikhathi esilinganisiwe**
1.1 **Bala izinto**	• **Gcizelela ulwazi olutholakele olufaka izinombolo ukufika koku 7** **Okukhuluma:** Bala izinto zansukuzonke ukufika koku 7. Bala uya phambili ubuye uye emumva ukufika koku 7. **Ukugcizelela ulwazi olukhuluma "ngokuningi" "nokumbalwa".** Shayani izandla zenu izikhathi eziningi ..... IMA Shayani izandla zenu izikhathi kambalwa / kancane ....Uthisha ushaya izandla ukofika ezikhathi eziyi 7. Buza umbuzo obuza ukuthi uzushaye kaningi / kambalwa.	Imilolozelo namaculo ezinombolo	Usuku olulodawa
	Ukusebenza ngomzimba - Abafundi ababili babizelwa phambili bese bebamba uphawu lwenombolo ehambisana nabo. - Kubizwa omunye futhi umfundi .abanye abafundi bayababala bese oyedwa wabo ebemba inombolo ewu 3.. - Baqhubeka baze bafike kwabayisi 7 abame phambili. .	Izimpawu zezinombolo ezikumakhadi ezinezinombolo 1 ukufika koku 7.	
	Ukusebenzisa Izinto ezinezimo ezinhlangothintathu - Beka amathini awu 7 emugqeni ,isibonelo:  - Abafundi bafaka uhlamvu /itshe ethinini lokuqala ,ezimbili kwelesibili; ezintathu kwelesthathu baqhubeka baze baqede onke amathini. Bafaka izinhlamvu ngangezinombolo ezibhalwe ngaphandle emathinini. - Thatha amakhrayoni agcwala isandla (aphakathi kwawu 10 kuya kwawu 15) bese bezifaka emagini Tshela abafundi ukuba baqagele ukuthi mangaki. Akuxoxwe izimpendulo zabo. - Khombisa ukuthi abalwa kanjani ngokukhipha eyodwa ngesikhathi uwabeke ngomugqa.	Amathini ayi 7 anezinombolo ezinamatheliswe kuzo. Iznhlamvu zembewu namatshe. Amkhrayoni nemagi.	

Isonto 28	**Isikhathi sokufunda esihakanyisiwe:** **Umsebenzi kathisha olungiselelwe iklasi, uthatha imizuzu okungenani engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsizakufubdisa ezinconyiwe**	**Isikhathi esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	• **Bona izimpawu zezinombolo namagama ezinombolo ezifika koku 7.** **Ukusebenzisa izimo ezisamifanekiso ezinhlangothintatu nezithombe** Dlala umdlalo: - Abafundi bahlala benze indilinga. Beka ikhadi lenombolo libheke phansi phambi komfundi ngamunye. (kungaba uphawu lwenombolo, igama lenombolo, ikhadi lamachashazi noma ikhadi elinesithombe elinezinombolo 1 kuya 7) - Tshela abafundi ukuthi badlulise ikhadi komunye umfundi ngokulishushulizisa libheke phansi/kukhaphethi - Abafundi basho: “ inombolo eymfihlo, inombolo eyimfihlo, kungaba iyiphi? Awuthi ngilunguze” - Abafundi balunguza amakhadi abo. - Uthisha uphakamisa ikhadi lakhe lenombolo. - Umfundi onekhadi elifana nelikathisha uphakamisa elakhe athi: “ngizophakamisa kakhulu ikhadi lami khona wonke umuntu ezolibona”.		Usuku olu-1
3.2 **Izinto ezinhlangothi ntathu (3-D)**	**Yakha izinto ezinhlangothintathu usebenzisa izinto eziphathekayo** • **Kopela ukwakha okudwetshiwe noma ekhadini lesithombe** **Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D** - Umfundi wakha isakhiwo esifanayo nokudwetshiwe noma okusesithombeni. - Kopisha okudwetshwe ngokufanayo nokusesithombeni usebenzisa ibhodi lamaphegi. **Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D** Qhubela lomsebenzi ebucikweni obubonakalayo. - Nikeza umfundi ngamunye iphepha elinezindilinga ezinhlobonhlobo ezinkulu nezincane, onxantathu nezikwele. Yenza abafundi: - Sika izimo wakhe izakhiwo ezi 2-D ephepheni bese uzinamathisela. - Hlobisa izithombe ngemidwebo.	“izimo eziLogi” amabhuloki amakhono “amabhuloki asebenzisa umqondo” Izinto okhwakha. Ibhodi lamaphegi Izinhlobonhlobo zezindilinga ezinkulu nezincane, onxantathu nezikwele ezisephepheni. Izikele, iglu	Usuku olu -1 kuyaqhutshekwa

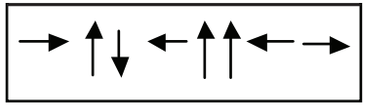
Isonto 28	**Isikhathi sokufunda esihakanyisiwe:** **Umsebenzi kathisha olungiselelwe iklasi, uthatha imizuzu okungenani engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsizakufubdisa ezinconyiwe**	**Isikhathi esilinganisiwe**
3.4 **Okufana nse nxazombili**	• **Ukuthuthukisa ikhono lokunqamula phakathi nendawo** **Ukunyakazisa umzimba** Yenza abafundi ba: - Bheka ulwazi olutholakale ngokwedlule; thinta amalunga omzimba ahlukene ngokuyalelwa.Dlala “USimon uthi: thinta i….. yakho” - Nika imiyalelo elula lapho abafundi bezothinta imigqa yabo ephakathi nendawo efana ne: thinta idolo lakho ngekhala lakho. Thinta ihlombe lakho ngendlebe yakho. Thinta idolo lakho lesinxele ngonyawo lwakho lwesidla. Tthinta idololwane yakho ngesandla sakho njll.	Umdlalo: “USimon uthi, thinta i….yakho”	Ukubobona umugqa ohlukanisa kabilili ngokulinganayo kufane ncimishi kuwena uqobo nakuloko okukuzungezile Ukunqamula umugqa ophakathi nendawo
	Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D Yenza abafundi ba**:** - Dweba indilinga enkulu ebhodini. - Dweba umugqa oqondile ebhodini. Qinisekisa ukuthi umfundi unqamula umugqa wakhe ophakathi nendawo. - Ebhodini dweba umugqa osuka echashazinini uya kwelinye ichashazi elikude nalo. - Dweba inombolo eyisishiyagalombili ivundle ebhodini. Sebenzisa iminyakazo emkhulu ukuqinisekisa ukuthi umfundi unqamula umugqa wakhe ophakathi nendawo. (Umfundi usebenzisa zombili izandla zakhe sekudla nesobunxele)	Abafundi abadweba ebhodini 	
	Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D Sebenzisa kuhlangane nobuciko obubonakalayo Yenza abafundi: - Penda ephephandabeni elinamakhasi amabili kusuka kwesokunxele kuya kwesokudla.	Iphephandaba elinamakhasi amabili umfundi ngamunye Upende nebhulashi	

Isonto 28	**Isikhathi sokufunda esihakanyisiwe:** **Umsebenzi kathisha olungiselelwe iklasi, uthatha imizuzu okungenani engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsizakufubdisa ezinconyiwe**	**Isikhathi esilinganisiwe**
4.3 **Isisindo**	**Ukuqhathanisa nokuhlela izinto eziphathekayo usebenzisa amagama afanele ukuchaza:** Isisindo Isib. Kulula, kuyasinda, kulula kakhudlwana, kusinda kakhudlwana • **Yethula ulwazi olusha uluzofundwa lesisindo** Linganisa isisindo ukuthola ukuthi into isinda kangakanani. **Ukunyakazisa umzimba** Yenza abafundi baqagele isisindo sezinto: - Bamba lezinto ezilandelayo, eyodwa esandleni esisodwa ukuqagela ukuthi iyiphi esinda kakhudlwana nokuthi iyiphi elula kakhudlwana. Isib. o Itshe nebhuloki lokwakha. o Ithoyizi lemoto kapulasitioki nethoyizi lemoto kathayela. o Ithini lekhofi nerola lephepha lasendlini yangasese. o Ibhola elikhulu lenjoloba nebhola lomphebezo. Abafundi bajwayele ukubuka into enkulu njengento esindayo uma kuthiwa abaqagele ukuthi iyiphi esindakakhudlwana phakathi kwezinto ezimbili. - Yethula isikali sokuzimelela isib. Kala into ukubona ukuthi imuphi umfundi osho okuyikho. - Buza imibuzo efana nokuthi: iyiphi into esinda kakhudlwana/ elula kakhudlwana? Yenza abafundi bathole into ekilasini abacaBanga ukuthi iyona esinda kakhudlwana/ noma elula kakhudlwana ukunento abayikalile. - Sicgine sikhona isikali sokuzimelela nangesikhatrhi sokudlala okukhululekile khona abafundi bezoqhubeka nokwenza imisebenzi yokulinganisa. - Beka isikali sokuzimelela “ekhoneni lendlu” khona abafundi bezobona ukuthi mangaki amabhuloki kaLego anesisindo esilingana, isibonelo , nese apula. 	3-D izinto ezinesisindo kanye nesilinganiso esehlukene isib. Amabhuloki kaLego, amathoyizi, amabhuloki okwakha, amathini, nezitsha njll. **Isikali sokuzimelela** Ungazakhela esakho isikali: - Kumele uthole ikhothenga yeplastiki, - Izitsha ezimbili zebhotela noma amabhodlela eplastiki esiphuzo nentambo. - Vula izimbobo ezimbili ziphambane esitsheni noma ebhodleleni - Bophela lesositsha/amabhodlela ekhothengeni ngentambo – usunaso isikali - Lengisa ikhothenga esipikilini noma ehukwini sebengaqala ukukala izinto – - Batshengisa abafundi ukuthi ikhothenga kumele ibe sesimeni sokuzimelela macala onke ngaphambi kokukala.	1 usuku Khetha imisebenzi emibili noma emithathu

Isonto 29	**Isikhathi sokufunda esihakanyisiwe:** **Umsebenzi kathisha olungiselelwe iklasi, uthatha imizuzu okungenani engama 30(okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsizakufubdisa ezinconyiwe**	**Isikhathi esilinganisiwe**
1.1 **Bala izinto**	• **Ukugcizelela ulwazi abaluthole befunda izinombolo oku 1 -7** **Okukhulunywayol**: Ukubala izinto zansukuzonke ukuyofika koku 7. Ukubala uya phambili nasemumva ukufika koku 7. Ukubala okusakuhuba ukusuka koku 1 – 10. **Ukugcizelela ulwazi olukhuluma "ngokuningi" "nokumbalwa".** Shayani izandla zenu izikhathi eziningi .....IMA Shayani izandla zenu izikhathi kambalwa / kancane ....Uthisha ushaya izandla ukofika ezikhathi eziyi 7. Buza umbuzo obuza ukuthi uzushaye kaningi / kambalwa.	Imilolozelo yezinombolo namaculo	Usuku olu -1
	Izinto eziphathekayo zisetshenziswa ukwakha izinto ezi3-D Abantwana abanze lokhu: - Qoqa izinti .Azigcinwe eklasini ukuzisetshenziswa futhi .. - Ukusetshenziswa kwezinti. Isibonelo: ukubhala izimpawu zezinombolo njengo 5 njengoba kubhalwe ngezansi. I. noma noma njll.	Izinti	
	Abantwana abanze lokhu: - Sebenzisa iqoqo lamakhadi anezinamba ukusuka koku 1 kuya koku 7. - Dweba inamba yezinto ezishiwo uthisha ngokumyalelo wenombolo. Isibonelo: dweba izindilinga ezimbili. - Bala ngakunye uqhubeke usukela enombolweni oyinikiwe . isibonelo: uthisha akasho inombolo abafundi baqale kuyo ukubala njengo 3 abafundi ababale baqhubeke basho okune, okuhlanu,njll - Ngesikhathi sekhefu uthisha akabuze ukuthi: Bangaki abafundi abazodla izinkwa ezinsundu? Babgaki abazodla izinkwa ezimhlophe ?ingabe abafundi abaningi badle isinkwa esimhlophe? Isiphi isinkwa esidliwe kakhulu /nakancane? - Uthisha ubeka izinto zibe inqwaba phezu keatafula abafundi abqagele /bahlawumbisele ukuthi zingaki bese bezibala kamumva.	Izithombe namaflashikhadi anamachashaza asuka kweli 1 ukuya kwayi 7 Izimpawu zezinombolo namagama ezinombolo ezikuma flashikhadi ayizinambolo ezisuka koku 1 kuya 7. Isibinelo: Isithombe sezinto ezi- 7 | 7 | isikhombisa Iphepha namakhrayoni	

Isonto 29	**Isikhathi sokufunda esihakanyisiwe:** **Umsebenzi kathisha olungiselelwe iklasi, uthatha imizuzu okungenani engama 30(okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsizakufubdisa ezinconyiwe**	**Isikhathi esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	• **Bona uphawu lwenombolo negama lenombolo efaka oku 1 kuya koku 7** **okukhulunywayo**: Ukubala izinto zansukuzonke ukuyofika koku 7. Ukubala uya phambili nasemumva ukufika koku 7. **Ukugcizelela ulwazi olukhuluma "ngokuningi" "nokumbalwa".** Shayani izandla zenu izikhathi eziningi ..... IMA Shayani izandla zenu izikhathi kambalwa / kancane ....Uthisha ushaya izandla ukofika ezikhathi eziyi 7. Buza umbuzo obuza ukuthi uzushaye kaningi / kambalwa. **Ukusebenzisa umzimba** - Beka inombolo ebhalwe ekhadini ngaphakathi eklasini nomangaphandle endaweni yokudlala. - Uthisha ubiza inombolo esendaweni ethile ebizwa "ngenombolo yezwe" abafundi abaphethe izinombolo babizwa ngenkosi noma ngenkosazana bese bethweswa umqhele owenziwe ngekhadibhodi.elibhalwe izinombolo ngokugqamile. - Tshela abafundi imiyalelo efana nokuthi: o Bonke abagqoke okubomvu abagxumele ku 2. o Bonke abafundi abanezinwele ezinde abahambe ngamazonzwane baye koku 6.	Amaculo ezinombolo nemilolozelo 3 5 2 Izinombolo ezinkulu ezikumakhadi Imiqhele mayanele bonke abafundi ngamunye abe neyakhe  	Usuku olu -1
	Ukusebenzisa Izinto ezinezimo ezinhlangothmbili noma izithombe Abafundi abenze lokhu: - Dweba inombolo enganachashaza ulandela imiyalelo kathisha. Isibonelo: dweba amachashazi amabili phinda ngezinombolo ukusuka ku 1 kuya ku 7. - Yiba nezinqwaba zezinombolo nezimpawu zazo ezilungisiwe .nika ingane ngayinye ikhadi. Uthisha uphakamisa ikhadi bese eyalela abafundi abanalawo makhadi bawaphakamise - *Isiphakamiso:* nika abafundi ithuba lokwenza abo amakhadi. - Dlala umdlalo wamakhadi wokuqondanisa inombolo ewphawu neyigama 	Amaphepha namakhrayoni Amakhadi angaphezu kwelilodwa eliyizinombolo u 1-7. Isibonelo:  	

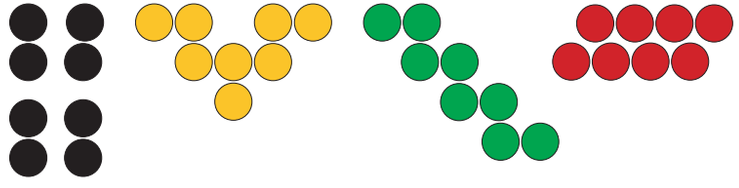
Isonto 29	Isikhathi sokufunda esihakanyisiwe: Umsebenzi kathisha olungiselelwe iklasi, uthatha imizuzu okungenani engama 30(okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsizakufubdisa ezinconyiwe**	**Isikhathi esilinganisiwe**
1.7 **Ukuhlanganisa nokususa**	• **Ukuxazulula izibalo ezihlanganisayo nezisusayo ezinezimpendulo ezifika koku 7** **Ukukhuluma**: ukubala izinto zansukuzonke ukufika koku 7: Ukubala uya phambili nasemumva ukufika koku 7. **Ukugcizelela ulwazi olukhuluma "ngokuningi" "nokumbalwa".** Shayani izandla zenu izikhathi eziningi ..... IMA Shayani izandla zenu izikhathi kambalwa / kancane ....Uthisha ushaya izandla ukofika ezikhathi eziyi 7. Buza umbuzo obuza ukuthi uzushaye kaningi / kambalwa. **Ukusebenzisa umzimba** - Bheka isonto 24 no 27 ukuthola imiqondo nolwazi. . - Sebenzisa ulwazi onalo nomqondo wakho ukwenza abufundi bazi ngobungako benombolo isi -7 besebenzisa imizimba yabo. **Ukusebenzisa izinto ezinezimo ezinhlangothintathu 3-D noma izithombe** - Bheka isonto 24 no 7 - Sebenzisa ulwazi onalo nomqondo wakho ukwenza abufundi bazi ngobungako benombolo isi -7 besebenzisa izinto eziphathekayo ezinhlangothintathu 3-D.	Amaculo ezinombolo nemilolozelo Izinto zokubala	Usuku olu -1

Isonto 29	**Isikhathi sokufunda esihakanyisiwe:** **Umsebenzi kathisha olungiselelwe iklasi, uthatha imizuzu okungenani engama 30(okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsizakufubdisa ezinconyiwe**	**Isikhathi esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	**Ukulandela izinkomba ukunyakaza eklasini** • **Ukukhulisa ulwazi lwezinkomba ngokusebenzisa imicibisholo esefleshikhadi neshdi elinemicisholo.** **Ukusebenzisa umzimba** Abafundi abahambe belandela izinkomba ezahlukene - Abaye emnyango , , - Abaye ewindini , - Ekhoneni elihlala izincwadi njll. **Ukusebenzisa Izinto ezinezimo ezinhlangothintathu 3-D** Abafundi abenze lokhu: - Dweba into evundlile yakha isi 8 ebhodini lokubhala. Qiniseka ukuthi yonke imigqa idlula phakathi nendawo. Isibonelo: 	Ibhodi lokubhala	Usuku olu -1
	Ukusebenzisa imifanekiso noma izithombe izimo ezinhlangothimbili 2-D Abafundi ngabodwana noma ngamaqenjana abo benza lokhu - Babuka ifleshikhadi banyakazise izingalo zabo ngokweonkomba komcibisholo bebe besho ukuthi babhekekuphi.isibonelo: uma ingalo iya kwesokudla uyasho. - Ukunyakaza uya phezulu naphansi abafundi Bangasebenzisa izingalo zabo. - Isimo inkomba ngomcibisholo eshadini. - Ukunamathisela imidwebo yezinyawo ebonisa umnyango. **Ulimi namagama:** Phezulu/phansi; ngaphakathi/ngaphandle; ngaphezulu/ngaphansi phambili/ngemumva ngaphezu kwe/ngaphansi kwe; kwelinye icala; ecaleni elilodwa; ngakwesokudla; ngakwesokunxele; njll	Amaflashikhadianomcibisholo owodwa. Phendula ifleshikhadi ibheke ezindaweni nasezinkombeni ezahlukene. Ishadi lemicibisholo (iposta enezinkomba ezibheke ezindaweni ezahlukene.) 	

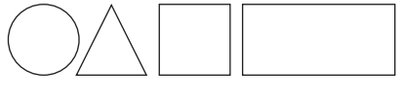
Isonto 29	**Isikhathi sokufunda esihakanyisiwe:** **Umsebenzi kathisha olungiselelwe iklasi, uthatha imizuzu okungenani engama 30(okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsizakufubdisa ezinconyiwe**	**Isikhathi esilinganisiwe**
4.3 **Isisindo**	• **Ukugcizelela ulwazi olufundwe esintweni 28olufaka isisindo: Okulula / okusindayo** **Ukusebenzisa umzimba** Abafundi abenze lokhu: : - Abaqhathanise izisindo zezitsha ezintathu kuya kwezinhlanu ezifanayo. Isibonelo(amagremu awu 400 amathini angenalutho) bawafaka isihlabathi esingalingani ukuze izisindo zingafani. - Abeke ngokulandelana uqale kwelilula ukofika kwelisinda kunawo wonke. Abeke esilinganisweni sokuzimelela , lokhu kungenza ukwazi ukubona ukuthi abafundi bakale kahle. - Isincomo: Hlola ngokukala ukuthi mangaki amawashela angalilganisa isilinganiso abe nesisindo esilinganayo. Uthisha ubeka izinto ezinesisindo esingafani ezitsheni ezivalekile ezifanayo. Isibonelo: izitsha zemajarini ezimbili, esisodwa sifakwe ibhulokhi esinye ibhola lethenisi. Abafundi abenze lokhu: - Abezwe umehluko phakathi kwezisindoezimbili bese beqagela ukuthi ikuphi okulula kakhulu nokusinda kakhulu. - Ukusebensisa isilinganiso sokuzimelela ukuthola isisindo sangempela. - Tshela abafundi bathole izinto eklasini ezinesisindo esilinganayo. Isihlabathi sokudlala namanzi okudlala izindawo ezimqoka okumele zisetshenziswe ukugcizelela ulwazi olufana nolimi lokulula/ okusindayo/okusinda kakhulu njll usebenzisa izilinganiso zezitsha ezinobungako obungafani., isilinganiso sokuzimelela, isihlabathi esimanzi nesomile. **Qikelela: hlala nafundi uma ukhuluma nixoxa futhi uchaza okuthile.**	Amathini angenalutho awubungako obulinganayo. Isilinganiso sokuzimelala Izinto ezingamabhuloki Izinto ezahlukahlukene ngesisindo ezifana amabhawoti / amawashela noma izipikili. izitsha zemajarini ezimbili, esisodwa sifakwe ibhulokhi esinye ibhola lethenisi. Isihlabathi sokudlala . Indishi yamanzi okudlala isitsha noma umsele.	Usuku olu -1

Isonto 30	Sebenzisa isonto30 ukubhekelela ulwazi olusele nezindawo zokufunda ezinezinkinga.	
Ulwazi	**isihloko**	**Izinga Lokuhlola**
Izinombolo, izimpawu nobudlelwano bazo	**1.1 Ukubala izinto**	Qagela bese ubala sakuhuba ukufika ku 7(amaculo ezinombolo nemelolozelo ukwandisa ulwazi)
		Ukubala uya emumva naphambili (1-7)
		Ukwazi ukuthi ihlombe kuyiphi inimbolo eningi noma encane.
		Ukubona izinombolo esimweni esijwayelekile.Isibonelo iminyaka yabo, irejista,njll(uphinde uhlole futhi)
		Ukubona izithombe zezinombolo izithombe namakhadi anamachashaza ukufika enombolweni e ngoku 7.
		Ukwazi izimpawu zezinombolo oku 5, 6,7
		Ukubona igama lenombolo okuhlanu, okuyisithupha nokuyisikhombisa
		Ukuhlukanisa phakathi kokuningi ,okuncane nokulinganayo ukufika kokuyisikhombisa (7)
		Ukubona imibala nezilwane ezahlukahlukene ezisemalini yamaphepha yaseNingizimu Afrika.
	1.6 amaqhinga okuxazulula izinkinga	Usebenzisa izinto eziphathekayo. Ukuchaza ukucaBanga kwakhe ngamagama nangezithombe nangokwenza imidwebo nangokusebenzisa izinto zokubala eziphathekayo.
	1.7/ 1.13 Ukuhlanganisa nokususa	Ukuxazulula izinkinga zezibalo zokuhlanganisa nezikususa ngokukhuluma ukuyofika kokuyi 7
Amaphethini nokuxhumana	**2.1 amaphethini asazibalomdwebo.**	Kopisha , wandise bese akha amaphethini akhe esebenzisa izithombe.
Indawo nesimo (ijiyometri)	**3.1 isikhundla , isimo nokubukeka kwento.**	Ukwazi isikhundla sezinto ezimbili nangaphezulu esinye kwesiye. Isibonelo: ngaphambili, ngemumva,ngaphezulu,kwi, ngaphansi, ngezansi, eduze, njll.
		Ukwenza imiyalelo esebhodini lamaphekisi
		Ukwazi izinkomba eshadini lemicibisholo
	3.2 izinto ezi 3-D	Ukwakha kususelwa esibonelweni esinikiwe
		Kopisha okwakhiwe kokudwetshiwe nama esithombeni ezingamakhadi. .
	3.3 izimo ezi 2-D	Ukwakha iphazili okungenani enezingcezu eziyi 18.
		Ukubona, ukukhomba nokusho izikwele
		Ukuqonda ukuhambisana kwezimo ezifundiwe kuze kube yimanje (ukugcinwa kwesimo)
Isilinganiso	**4.2 Ubude**	Qagela bese ulinganisa ubude bezinto ezehlukene
	4.3 Isisindo	Ukuqonda ulwazi oluhambisana nolimi lokulula, okusindayo,okusinda kakhudlwana, okulula kakhulu, njll
	4.4 Umthamo	Ukuqonda ulwazi oluhambisana nolimi lokungenalutho, okugcwele, okuningi kunoku, okuncane kuno, njll
Ukuqokelelwa kolwazi	**5.1Ukuqoqa, uhlele izinto.**	Ukwazi ukuqoqa ,ahlele, adwebe, afunde bese ebhala phansi ulwazi (ahlaziye) izinto ngokuchazwa
	5.2 Ukubeka okumele nokuhlela izinto eziqoqiwe	
	5.3 xoxa uthule umbiko ngezinto eziqoqiwe zahlelwa	

ITHEMU 4 YEBANGA R			
Isonto 31	**Izikhathi Zokufunda Ezinconyiwe:**		
Ukujwayeza	**Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Yethula okuchazwa inombolo 8** **Ukukhuluma:** bala izinto zansukuzoke kufike 8 Bala uye phambili ubuye uye emumva kufike koku-8 Ukubala bephimisa 1-10 **Yethula ukubala ngakubili kusetshenziswa umlolozelo wezinombolo** **Gcizelela izinombolo zesikhundla:** Uthisa upakisha izinto ezi- 4 emigqeni. Khomba into ngayinye uma uyibala *okokuqala, okwesibili, okwesithathu nokwesine.* **Gcizelela ulwazi " okuningi kanye nokumbalwa"** Shaya izandla kaningana …..IMA Shaya izandla kancanyana. Uthisha ushaye kuze kube kayisi 8. Buza imibuzo ukuthi izandla zishaywe kaningi/kambalwa.	Fakela inani lezingoma ngezigqi zokubala. *kubili, kune, kuyisithupha, kuyisishiyagalombili* *Indoda isesangweni..* *Ithi isemva kwesikhathi;* *kubili, kune, kuyisithupha, kuyisishiyagalombili*	Usuku olu-1
	Ukusebenzisa umzimba Yenza abafundi ba: - Bala amagxathu ayisishiyagalombili ngesikhathi ujikeleza ngaphakathi ekilasini: - Veza iminwe eyisishiyagalombili - Yenza abafundi ba: - Ukusebenzisa isitebhisi sezinombolo silele phansi - Qikelela ukuthi abafundi baqala ukubalala besuka koku -0 - Khomba izimpawu zezinombolo behamba esitebhisini sezinombolo - Bahamba bebala amagabelo phezu kwesitebhisi bebebebala belandela isigqi	0 1 2 3 4 5 6 7 8 Isethi yamakhadi avezwayo yezimpawu zezinombolo 1 kuya 8.	

Isonto 31 **Ukujwayeza**	**Izikhathi Zokufunda Ezinconyiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	• **Bona izimpawu zezinombolo,Kanye namagama ezinombolo** **Ukusebenzisa izinto ezi3-D.** Yenza abafundi ba: - Bala izinto ezisekilasini ufake izinombolo 1 kuya 8 - Bala izinto zokubala kufike koku- 8	Isethi lezinto 8 ezitholakala ekilasini Izinto ezisetsheselwa ukubala	Usuku olu-1
	Thuthukisa ukuqaphela kokulondolozwa kwezinombolo ngokwenza abafundi bapakishe izinto zokubala ngezindlela ezahlukene isib.:  Uma kubalwa,inombolo yezinto ayiphazanyiswa uubukhulu, noma isikhundla , noma ukufana Isibonelo: - Hlela izinkinombo ezi-8, amapensela 8, amahulahuphu 8, nabafundi 8 njll - Kubale konke ngokwehlukahlukana kwakho isib. Zibale uzendlale, uzisondelanise, emugqeni noma uzipakishe. **Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D** Yenza abafundi: - Dlala imidlalo ngokuhlanganisa izinto zokubala nezinombolomagama nezimpawu zezinombolo, amachashazi, namakhadi ezithombe lawo afaka inombolo 8 - Bhala phezu kwenombolo -8 ngekhirayoni	8 izinto zokubalanoma 8 izinto nje Amakhadi avezwayo anezimpawu zezinombolo, nezinombolo magama, amachashazi kanye nezithombe isib.  Amakhirayoni Izinto zokubala	

Isonto 31 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Sebenzisa inombolo isi-8 esimweni esejwayelekile.** **Ukukhuluma:** bala izinto zansukuzoke kufike 8 Bala uye phambili ubuye uye emumva kufike koku-8 Ukubala bephimisa 1-10 **Gcizelela ukubala ngakubili usebenzisa imilolozelo yezinombolo** **Gcizelela ulwazi " okuningi kanye nokumbalwa"** Shaya izandla kaningana …..IMA Shaya izandla kancanyana. Uthisha ushaye kuze kube kayisi 8. Buza imibuzo ukuthi izandla zishaywe kaningi/kambalwa. **Ukusebenzisa umzimba** Yenza abafundi ba: - Benza inombolo isi-8 ngeminwe yabo - Bakha inombolo-8 ngesinqamu sentambo/ iwulu - Babhala uphawu lwenombolo esihlabathini - Babeka amakhadi amakhulu anophawu lwezinombolo ngokulandelana kwazo kufike ku-8	Amaculo nemilolozelo ezinombolo Intambo /iwulu noma inhlama kanye thileyi elinosimende. Inani ilkalelwe izinto ezithile zokubumba amakhadi	Usuku olu-1
	Sebenzisa umqondo ojulile 3-D wezimo zezinto ezingantathu. Uthisha uzonikeza umfundi ngamunye obhontshisi abayi- 8, namafleshikhadi anamachashazi ayi-8 Yenza abafundi: - Bapakishe ubhontshisi kudothi yefleshi khadi. - Bala obhontshisi - Xhumanisa khadi lamachashazi ekhadini lenombolo magama nezinto zokubala.	8 amabhontshisi omfundi ngamuye. Ifleshi khadi elinonqi. Igama ifleshi khadi nokubalayo. 	

Isonto 31 **Ukujwayeza**	**Izikhathi Zokufunda Ezinconyiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **izimo ezinhlangothi mbili (2-D)**	**Bona , ukhombe izimo ezi-2-D ekilasini nasezithombeni.** - **Unxande**. • **Yethula unxande** **Sebenzisa umzimba** Yenza abafundi: - Benze izimo ngemizimba yabo isib. Uhlela izimo zemizimba yakhona isib abafundi aba-6 behlela unxande ngemizimba yabo - Benza onxande besenzisa iminwe yabo. - Bakha unxande ngesinqamu sewulu noma ubumba. - Hamba ngaphandle kwesimo esingunxande. Ngesikhathi behamba basho bathi “ ngihamba eduze kukanxande- uhlangothi olude, olunye olufishane, nolunye olude, nolunye olufishane” - Bezwa izimo. Sebenzisa izimo ezinkulu noma izimo eziningi esikhwameni sokuzwa izimo”feely bag” thola isethi yamakhadi afanayo adwetshwe izimo. Abafundi bayezwa izimo esikhwameni bese beqhathanisa namakhadi ezimo. - Dweba onxande emoyeni.phansi emhlabathini (ngoshoki),ekugcineni babhale ephepheni.	Umdlalo wamakhadi wokuthuthukisa ulwazi lwezimo. Iwulu noma ubumba Isikhwama sokuzwa“Feely bag” esinezimo ezahlukene isethi yamakhjadi okuqondanisa izimo ezidwetshiwe nephepha elingu- A4 nekhirayoni	Usuku olu-1
	Hlela izinto eziphathekayo ezi- 3-D nezimo ezi 2-D ngobungako, umbala, nezimo Yenza abafundi bafuna izinto ezingunxande ekilasini. **Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D** - Khomba izimo ezingonxande ezithombeni - Khomba zonke izimo esezifundisiwe kuze kube manje **Hlela izinto ezi 3-D nezimo ezi2-D ngobungako , nombala, nangezimo.** - Hlela izinto eziqoqelwe ndawonye ngobungako, umbala, nangezimo	Izinto ezingonxande ekilasini Zonke izimo ezifundisiwe kuze kube manje: Izinhlonhlobo zezithombe ezinezimo kuzona 	

Isonto 31	Izikhathi Zokufunda Ezinconyiwe:		
Ukujwayeza	Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**

5.1

Qoqa bese uhlela izinto

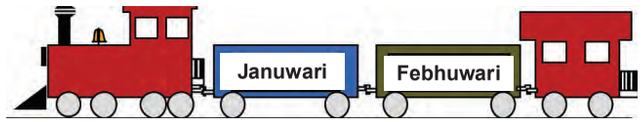
- **Gcizelela ukuqokelelwa kolwazi endaweni noma ekilasini ngokulandela izimpawu ezinikiwe isib. Izinsuku zokuzalwa kwabafundi.**

Sebenzisa izinto eziphathekayo ezi- 3-D

Qoqa uphinde uhlele ulwazi

- Sebanzisa amashadi ezinsuku zokuzalwa, ukubona ukuthi obani abazelwe kuyiphi inyanga.
- Abafundi bazolekelela ngokwenza igrafu ukubona ukuthi iyiphi inyanga okuvela kuyo izinsuku zokuzalwa eziningi.
- Uthisha udweba igrafu enzinyanga ezi-12 zonyaka
- Ngosizo lukathisha abafundi babeka izimpawu ezimele usuku lokuzalwa komfundi ngamunye

Ishadi lezinsuku zokuzalwa



5.2

Okumele izinto eziqoqiwe

Jan	Feb	Mash	Epreli	Meyi	Juni	Julayi
Sipho Martha Helen Dolly	david Bongi Claire		Nelson Jacob Tim	Kabelo Pat Thandi	Selina Liz Titus	Thabo Jane
4	3	0	3	3	3	2

- Abafundi babala amagama bese bebhala isamba sezinsuku zokuzalwa zenyanga ngayinye
- Abafundi bayoqhathanisa izinombolo zezinsuku zokuzalwa ezinyangeni ezahlukene.

Uthisha ubuza imibuzo enjenga le:

- Yiyiphi inyanga enezinsuku eziningi zokuzalwa?
- Yiyiphi inyanga enezinsuku ezincane zokuzalwa?
- Yiyiphi inyanga enezinsuku ezilinganayo zokuzalwa?
- Yiziphi izinyanga ezinabafana abaningi abagubhe izinsuku zabo zokuzalwa?
- Yiziphi izinyanga ezinamantombazane agubha izinsuku zokuzalwa?

Ikhadi elinegama lomfundi kulo.

Dweba amakhalamu ayi-12 ephepheni elikhulu. Khombisa ngekhadi legama ukuthi iziphi zinyanga zabafundi abazalwa ngazo sebenzisa ± 3 amaphepha ka A2 ngamakhalamu ayi 12 edwetshiwe.

5.3

Xoxa bese uzisho izinto eziqoqiwe zahleiwa

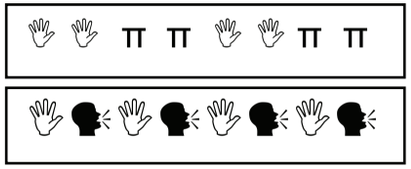
Abafundi bayokhuluma bavumelane ngalezizinqumo ezilandelayo

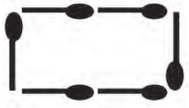
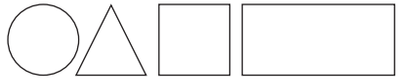
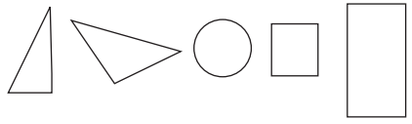
- u Janawari unezinsuku eziningi zokuzalwa , abafundi abane abagubha izinsuku zokuzalwa kwabo ngoJanuwari
- Azikho izinsuku zokuzalwa ngoMashi. Kunenyanga eyodwa okungazalwanga mfundi ngayo.
- Ezinye izinyanga zinenani elilinganayo labantu abazalwayo njll., yiziphi lezonyanga?

Isonto 32 **Ukujwayeza**	**Izikhathi Zokufunda Ezinconyiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Gcizelela ulwazi oluthole ngesonto lama -31 olufaka inombolo-8.** **Ukukhuluma:** bala zoke izinto uze ufike 8 Bala uye phambili noma uye emumva kufike koku- 8 Ukubala bephimisa 1-10 **Gcizelela ukubala ngakubili usebenzisa umlolozelo wezinombolo** **Gcizelela ulwazi " okuningi kanye nokumbalwa"** Shaya izandla kaningana …..IMA Shaya izandla kancanyana. Uthisha ushaye kuze kube kayisi 8. Buza imibuzo ukuthi izandla zishaywe kaningi/kambalwa. **Ukusebenzisa umzimba** Asidlaleni: - Uthisha udlala izinsimbi zomculo isib. isigubhu. - Abafundi benza umnyakazo - Uma isigubhu sima, uthisha ubiza izinombolo eziphakathi koku1 noku 8 bese abafundi bezihlela babe ngamaqoqo amancane isib. Uthisha ubiza i-8 bese abafundi bezihlela babe ngamaqoqo esi 8. - Veza iminwe eyi 8 ngezandla zombili. - Yakha amasethi. Dweba izindilinga ezinkulu esihlabathini, bese wenza abafundi benze amaqoqo ayi-8 phakathi endilingeni, iqoqo labafundi abayi-8 bengenza imisebenzi ethile bendawonde osukwini isib. Badlala ekhoneni lamabhuloki, baye nasendaweni yokwenza ubuciko	Nikeza inani lezingoma nezigqi Intambo /ye volo noma inhlama kanye thileyi elinosimende. Inani ilkalelwe izinto ezithile zokubumba amakhadi 8 amabhontshisi omfundi ngamuye. Ifleshi khadi elinonqi. Igama ifleshi khadi nokubalayo.	Usuku olu-1

Isonto 32 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	**Ukusebenzisa izinto eziphathekayo ezi 3-D** Yenza abafundi ba: - Sebenzisa izinto zokubala isimo ukuthi yiyiphi inombolo eza ngaphambili koku 8 iphinde futhi ize emuva 5? Yiyiphi inombolo ephakathi 6 no 8? - Bala izinto ngakubili o izicathulo o amasokisi o amehlo o amacici o izindlebe o imilenze **Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D** - Uma ngabe uthisha emaka irejista, uthisha uyabuza: “kukhona umfundi onenombolo yomuzi noma ikheli ..... la?” Umfundi uphendula ngokuthi ukhona lapha - Phinda ngosuku olulandelayo asebenzise izinombolo zocingo noma zamakhalekhukhwini.	isigubhu izinto zokubala izicathulo, amasokisi kanye namacici Amakhadi anezinombolo zocingo namakheli	

Isonto 32 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.7 **Ukuhlanganisa nokususa**	• **Xaxulula izinkinga zezibalo zamagama (izibalo zengxoxo) ezifaka inombolo 8** **Ukusebenzisa umzimba** - Uthisha usiza abafundi abafundi ukwenza amaqembu ka 6 namanye amaqembu ka 2 abafundi. - Hlanganisa amaqembu womabili wenze iqembu elilodwa. - Buza abafundi ukuthi Bangakhi abafundi sebebonke kumaqembu esehlangene? - 6 no 2 □ 8 (uthisha uthi 6 no 2 kwenza 8 - Iqoqo labafundi aba -8 ndawonye. Thatha abafundi aba-3 ubahlukanise wenze iqembu elincane. Ngakho Bangakhi abafundi abasele eqenjini elikhulu? 8 susa 3 □5 - Khetha abafundi ababili usebenzisa umlolozelo wokubala - Beka izinti zokubala ezi 4 esandleni somfundi oyedwa nezinye izinti ezi 4 esandleni somunye umfundi zingaki izinti zokubala uma sezizonke? 4 no 4 □ 8 **Ukusebenzisa izinto ezi3-D.** Nikeza umfundi ngamunye izinti zokubala ezi-8 - UTshidi unezinto zokubala ezi-6 umngani wakhe unezi- 2. Zingaki izinti zokubala zizonke? 6 no 2 □8 - UBonga unezinto zokubala ezi- 8. Walahlekelwa ezi 2. Zingaki izinti zokubala sezizonke? 8 susa 2□6 **Ukusebenzisa izinto ezi3-D** - Uthisha ubeka izithombe ezi-2 ebhodini leflanela. Ungeza ngezinye izithombe ezi 5. Zingakhi izithombe sezizonke manje? 2 noku 5□ 7 - Beka izimo ezi 8 ezahlukene ebhodini le flanela. Thatha ususe oku-5. Zingaki izithombe ezisele? 8 susa 5□3	Amaqembu abafundi Izinti zokubala Imilolozelo yokubala Izinti zokubala umlolozelo: 1,2,3,4,5 ngamzukwane ngibamba ufishi uphila 6,7,8,9,10 ngayiyeka yahamba futhi Izithombe nebhodi yeflanela	Usuku olu-1

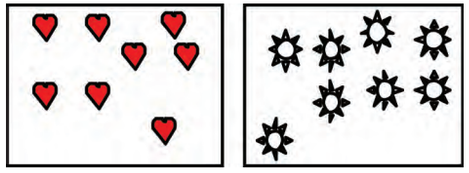
Isonto 32 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
2.1 **Amaphethini asazibalo mdwebo**	• **Kopisha wandise amaphethini alalelwayo** **Ukusebenzisa izitho zomzimba** Abafundi banyakazela isigqi somculo isib. - Isitebhu, isitebhu, kheleza, kheleza…. - Gxuma ngonyawo olulodwa, gxuma ngonyawo olulodwa, gxuma ngezinyawo zombili …….. **Ukusebenzisa izinto ezi3-D** Hlanganisa nesifundo sobuciko bokwenza esifundweni samakhono empilo Abafundi banyakaza belandela isigqismculo ngezandla zabo, bethinta amathanga abo isib. - Ihlombe, ihlombe, gxoba, gxoba, (beshaya izandla, babuye bezishaya emathangeni) - Uthisha wenza amakhadi esigqi abafundi bephindaphinda ngokushaya izandla nesigqi (besebenzisa izandla bezishaya, kanye nezinyawo begidagida) isib.  - Ihlombe, ihlombe, gxoba, gxoba …… - Ihlombe, ukumemeza, ihlombe, ukumemeza....	I -CD Yokudlala umculo. Umsindo owenziwa ngokushaya umzimba	Usuku olu-1

Isonto 32 **Ukujwayeza**	**Izikhathi Zokufunda Ezinconyiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **Izimo ezinhlangothi mbili (2-D)**	**Bona, khomba bese uchaza izimo ezinhlangothi mbili 2-D ekilasini** • **Gcizelela ulwazi lwesimo unxande** **Sebenzisa izitho zomzimba:** Yenza abafundi: - Benze / bakhe izimo ngemizimba yabo, isib. 4 abafundi benze unxande ngemizimba yabo. - Benze inxande besebenzisa iminwe yabo - Benze inxande besebenzisa zikamentshisi ezi-6  - Benze noma bakhe inxande besebenzisa izinqamu zentambo noma ubumba - Bahambe ngaphandle komphetho wesimo esinxande - Bathinte izimo ezahlukene, ezifakwe esikhwameni sokuzwa izimo ezahlukene “feely bag” - Bathole isethi lamakhadi afananayo nezimo ezidwetshiwe kuwo. Umfundi uyothinta isimo ngasinye abuye asiqondanise nekhadi. - Dweba inxandu emoyeni , esihlabathini, phansi agcine ephepheni	Umdlalo wamakhadi lona othuthukisa ukwaziwa kwezimo Izinti zikamentshisi Isethi lamakhadi okuqondanisa Iphepha elingu A4 nekhirayoni Iwuli. Ubumba, Isikhwama sokuzwa izimo esinezimo ezahlukene “ feely bag”  Lokhu kufakela izimo zemidwebo emikhulu nemicane,ehlukene  Isethi lamakhadi okuqondanisa Iphepha elingu- A4 nekhirayoni	Usuku olu-1

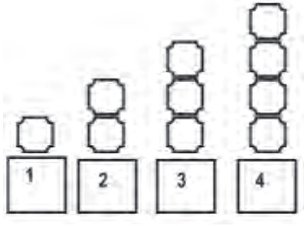
Isonto 32 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **Izimo ezinhlangothi mbili (2-D)**	**Ukusebenzisa izinto ezi3-D** - Yenza a abafundi babheke izinto ezingonxande ekilasini Dlala umdlalo: “yikuphi okungekho?” - Beka inombolo yezimo ezi 2-D ephepheni phakathi nendawo nokhaphethi isib. Izimo ezisuselwa “ku Logi S” umdlalo - Khulumani ngesimo ngasinye nabafundi. - Nikeza abafundi ithuba lokucaBanga ngezimo ezihlukene ngokwenza ephepheni. - Abafundi bavale amehlo - uthisha asuse isimo esisodwa - abafundi bafanele bavule amehlo abo babone ukuthi yisiphi isimo esingasekho - Phinda lendlela - Khuthaza ukuthuthuka kwezimo ezisazibalo mdwebo, ngokubanika izinhlobonhlobo zemidlalo yamakhadi efana ne (yikuphi okusesikweleni?) noma eminye imdlalo ekhona.	Izinto eziwunxande ekilasini Izinhlobonhlobo zezimo isib. isimo esi Logi	

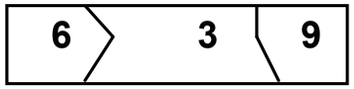
Isonto 32 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	**Chaza isikhundla sezinto ezi-3-D ezimbili noma ngaphezulu ezinobudlelwano** **Ukusebenzisa umzimba** Yenza abafundi: - Bame phakathi kwezinto ezi 2 noma abafundi aba 2 - Bame eduze kwentombazane enengubo eluhlaza - Bame eduze komfana ofake izingxabulela ezinsundu - Bahambe phakathi kwamabhokisi - Bagaqe bazungeze itafula - Bagaqe ngaphansi kwetafula - Babeke isitulo phambi kwakho - Babeke isitulo emva kwakho - Bame esitulweni sabo - Bahlale phansi - Babeke isitulo phezu kwabo - Babeke isitulo eduze kwabo - Babeke isitulo kwesobunxele/kwesokudla **Ukusebenzisa izinto eziphathekayo ezi 3-D** - Yenza abafundi baqedele iphazile enezithombe zabantu noma izilwane - Tshutsha ubuhlalu ngemiyalelo kathisha isib. Tshutsha ubuhlalu obubomvu sese ufaka obuluhlaza eduze kobubomvu njll - Tshutsha ubuhlalu ngokulandelana kwezithombe ezinikiwe **Sebenza ngama qembu amancane.** uthisha unikeza umfundi ngamunye ibhodi lamaphekisi nesandla ezigcwele amaphekisi - Nikeza imiyalelo elandelayo: - Beka amaphekisi amabili phezulu ngasesandleni sokunxele - Beka iphekisi elilodwa eliluhlaza ngasesandleni sokudla sephekisi elibomvu - Beka iphekisi eliluhlaza okwebhakabhaka ngaphansi kwephekisi eliluhlaza njll.	Izitulo 2 Amaphazili Amabidi namatredi Amaphekisi namabhodi amaphekisi 	Usuku olu-1
	Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D - Dweba abantu noma izilwane okungenazingalo okungenamilenze bese ucela abafundi ukuthi beqedele lomdwebo.	Amaphepha okusebenza anemidwebo.	

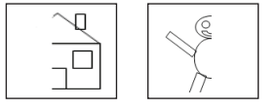
Isonto 33 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Gcizelela ulwazi olufundwe ngesonto 31 ne 32 olufaka izinombolo 1kuya 8** **Ukukhuluma:** bala zoke izinto uze ufike 8 Bala uye phambili noma uye emumva kufike koku- 8 Ukubala bephimisa 1-10 **Gcizelela ukubala ngakubili usebenzisa umlolozelo wezinombolo** **Gcizelela izinombolo zesikhundla:** Uthisa upakisha izinto ezi-8 emigqeni. Khomba into ngayinye uma uyibala *okokuqala, okwesibili, okwesithathu okwesine, nokwesihlanu* **Gcizelela ulwazi " okuningi kanye nokumbalwa"** Shaya izandla kaningana …..IMA Shaya izandla kancanyana. Uthisha ushaye kuze kube kayisi 8. Buza imibuzo ukuthi izandla zishaywe kaningi/kambalwa.	Imilolozelo yezinombolo namaculo	Usuku olu-1
	Ukusebenzisa umzimba - Abafundi basebenzisa imizimba yabo ukwenza izimpawu zezinombolo - Uthisha wenza izinombolo ngezinto eziningi ezahlukene abafundi Bangazithinta isib. Isendiphepha/ubumba, intambo. - Basho imilolozelo yezinombolo namaculo.	Izimpawu ezinkulu zezinombolo ezenziwe ngosendiphepha.	
	Sebenzisa izinto eziphathekayo ezi3-D - Sebenzisa izinto eziphathekayo ezinjenga amabhuloki nezilwane zamapulasitiki - Zibale ,uzihlele ,zibe zibeyisishiyagalombili emugqeni njll Hlukanisa abafundi wenze amaqembu. Beka inqwaba yezilwane zepulasitiki zasepulazini phakathi kweqembu ngalinye. Yenza abafundi: - Basebenza ngababili emaqenjini baqagele ukuthi zingaki izilwane enqwabeni - Iqembu ngalinye lithatha ikhadi lenombolo ukuqondanisa ukuqagela kwabo. - Babale inombolo okuyiyo yezilwane - Iqembu ngalinye lizothola inkanyezi eziphongweni - Phinda ngukuthi ufake elinye inani lezilwane phakathi nendawo kukhaphethi.	Amabholoki nezilwane zamapulasitiki 9 izilwane zamapulasitiki amasethi ambalwa zamakhadi ezimpawu zezinombolo izinkanyezi zokuhlabana	

Isonto 33 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	**Bona bese uchaze izimpawu namagama ezinombolo okufaka izinombolo 1 kuya-8** **Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D** - Qondanisa izimpawu zezinombolo nesithombe esifanele - Umfundi kufanele aqonde ukuthi iqoqo lezinto lingaba nezinto ezinenani elifanayo  - Abafundi kufanele bakhombe into ngayinye uma bezibala - Abafundi bafanele baqondanise izinto nezinye isib. Inhliziyo eyodwa iqondana nelanga elilodwa. - Qondanisa amakhadi avezwayo ezithombe, nawamachashazi, nawezimpawu zezinombolo kanye nezinombolomagama anenani elilinganayo lezinto zokubala	Izithombe kanye nezinto namakhadi avezwayo ezimpawu zezinombolo Izinto zokubala  Isethi lenani lezinombolo zamakhadi elifaka izinombolo 1 kuya 8	

Isonto 33 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Hlela bese uyaqhathanisa izinto usebenzise (okungaphezulu/okungaphansi) kanye "nokulinganayo"kufike koku-8** **Ukukhuluma:** bala zonke izinto uze ufike 8 Bala uye phambili noma uye emumva kufike koku- 8 Ukubala bephimisa 1-10 **Gcizelela ukubala ngakubili usebenzisa umlolozelo wezinombolo** **Gcizelela ulwazi " okuningi kanye nokumbalwa"** Shaya izandla kaningana …..IMA Shaya izandla kancanyana. Uthisha ushaye kuze kube kayisi 8. **Ukusebenzisa umzimba** - Uthisha ubeka amabhuloki ayi 8 etafuleni. Ngaphandle kokubala abafundi, kufanele baqagele inani lamabhuloki - Uthisha uyabuza lokhu: o "Ngabe kunamabhuloki ama- 3"? o Abafundi babuka izimpendulo zabo ngokubala amabhuloki o "ukuqagela kwakho kusondele kangakanani"? **Sebenzisa izinto eziphathekayo ezi- 3-D** - Akha iqembu labafundi abane. Nikeza iqembu ngalinye izinto zokubala ezi-8 nephepha elinezindilinga ezinkulu ezidwetshiwe. Biza izindilinga ngesidleke. - Ngokwemiyalelo kathisha abafundi babeka izinto zokubala esidlekeni esisodwa basho ukuthi zingaki. - Abafundi baqathanisa "izidleke" , besho nokuthi yisiphi isidleke "esinokuningi kunokunye", "okuncane kunokunye" kanye "nekulinganayo" noma "inani lezinto zokubala	Imololozelo namaculo ezinombolo amabhuloki Izinto zokubala Iphepha -A4 elinezidleke ezimbili ezidwetshiwe kulo 	Usuku olu-1

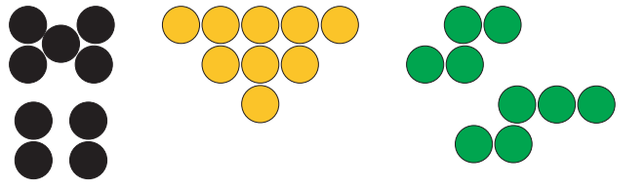
Isonto 33 Ukujwayeza	**Izikhathi Zokufunda Ezinconyiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	Hlukanisa abafundi ngamaqembu - Nikeza iqembu ngalinye amakhiyubhu **amaning**i nesethi yamakhadi ezimpawu zezinombolo ezifaka 1kuya-8 - Yenza amaqembu akhe imibhoshongo, babhale umbhoshongo ngamunye inombolo yamakhubhu ewakhile.isib.  **Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D** - Uthisha ubakhombisa amakhadi amabili anezinombolo ezehlukene zamachashaza nezithombe kuzo. - Yenza abafundi baqhathnise amakhadi nezithombe namachashaza bese bekhomba “ okuningi kunokunye”, “okuncane kunokunye” “nokulinganayo”	Amakhubhu Amakhadi ezimpawu zezinombolo 1-8 Amakhadi avezwayo anamachashazi nezithombe  	
1.13 **Ukuhlanganisa nokususa**	• **Xazulula izinkinga ezichaziwe zezibalo zokuhlanganisa nokususa kufike-8** **Ukukhuluma:** bala zonke izinto uze ufike 8 Bala uye phambili noma uye emumva kufike koku- 8 Ukubala bephimisa 1-10 **Gcizelela ulwazi “ okuningi kanye nokumbalwa”** Shaya izandla kaningana …..IMA Shaya izandla kancanyana. Uthisha ushaye kuze kube kayisi 8. Buza umbuzo iyiphi inombolo yokushaya ebe ningi/ncane.	Imilolozelo namaculo ezinombolo,	Usuku olu-1

Isonto 33 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.13 Ukuhlanganisa nokususa	**Ukusebenza komzimba** Izibonelo: 1. Uthisha ubiza abafundi aba-3 ngaphambili. Abafundi bababale. Uthisha ubiza abanye abafundi ababili aba-2 aphinde abuze: “Bangaki abafundi sebebonke”? 3 no-2□5. (uthisha uthi; 3 no2 kwenza 5) 2. Uthisha upakisha izitulo ezi-2. Angeze ezi-2 ngaphezulu. Zingakhi izitulo manje? 2 no 2□4 3. Uthisha uphakamisa isandla esisodwa.. Athi; (bala iminwe yami uma ngifihla isithupha sami mingaki iminwe oyibonayo”? 5 susa 1□4 4. Yenza abafundi benze okwenziwe uthisha. **Sebenzisa izinto eziphathekayo ezi-3-D** Yenza abafundi bapakishe izinto zokubala ezi- 6 bese benza lokhu okulandelayo: - Uthisha unikeza umfundi ngamunye izinto zokubala eziyi 6. Uthisha unikeza umyalelo abafundi benze isib. Pakisha izinto zokubala ezi-2, engeza ezi- 3. Kungaki sekukonke 2 no 3□5 - Bala izinto zokubala ezi-4. Bala uqhubeke ngooku- 2 kokune. Kungaki osunakho manje? 4 no 2□6 - Bala bonke ubuhlalu onabo. Uma umboza ubuhlalu obubili ngesandla, bungakhi obubonayo? 6 susa 2□4 **Sebenzisa izimo nezithombe ezi- 2- D** Yenza amaphazili ngezinombolo uvumela abafundi basebenze ngephazili.  	Izinto nezinto zokubala Amaphazili ezinombolo	

Isonto 33 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **izimo ezinhlangothi mbili (2-D)**	**Bona, khomba bese uchaza izimo ezinhlangothi mbili ezithombeni** **Ukwakha isithombe enqondweni** • **Bona izingxenye kokuphelele** **Ukusebenzisa umzimba** Uthisha uchaza into abuze abafundi ukuthi iyini isib. - NgicaBanga into enombala obomvu, enamasondo amane, iminyango emine namafasitela avulekayo enze umsindo othi"wroom" lomsebenzi ungenziwa ngamaqembu uphenduke umcintiswano- iqembu elilodwa lizochaza, elinye iqembu lizoqagela ukuthi yini leyonto. - Chaza umuntu uphinde ubuze abafundi ukukhomba lowomuntu **Sebenzisa izimo nezithombe ezi- 2-D** - khombisa umfundi isithombe umenze asibuke. Emuva kwalokho sisuse ucele umfundi ukuthi asichazekonke akukhumbulayo ngaso. - Thatha isithombe esisodwa usisike izicucu. Thatha lezozicucu zesithombe uzifake ebhokisini bese ucela abafundi ukuba izingxenye ezingekho zesithombe, abasicoshile. - Dweba isithombe esingaphelele ephepheni ucele abafundi ukuthi basiqedele	Noma yisiphi isithombe Izithombe nezicucu ezisikiwe Umdwebo ongaphelele 	Usuku olu -1

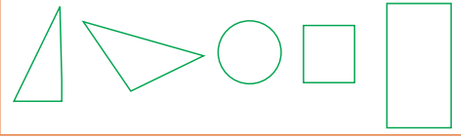
Isonto 33 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.4 **Okufana nse nxa zombili**	• **Thuthukisa ukuqaphela ukuthi umzimba womuntu unohlangothi lwesokudla nesokunxele anyakaza ngokuzimela** **Ukusebenzisa umzimba** - Faka isihlilingi esihlakaleni somfundi ngamunye esandleni sokudla - Cula iculo lomnyakazo " ngifaka unyawo lwesinxele phakathi" Yenza abafundi: - Babeke izandla zabo zokudla emakhanda - Bathinta amadolo esinxele ngezindololwano zabo zangakwesokudla - Bathinta amahlombe anga kwesokudla ngezandla zabo zesinxele	Iculo lomnyakazo/umlolozelo isib. Ngibeka unyawo lwami lwesinxele ngaphakathi	Usuku olu -1
	Sebenzisa izinto eziphathekayo ezi- 3-D Nikeza umfundi ngamuye amabhuloki okwakha Yenza abafundi bahlale kukhapheithi: - Beka ibhuloki ohlangothini lwabo lwesokudla / nakwesokunxele - Ehlombe langakwesokunxele/ langakwesokudla - Edolweni langakwesokunxele/ nelangakwesokudla - Onyaweni langakwesokunxele/ nelangakwesokudla njll.	Ibhuloki lomfundi ngamuye	
3.1 isikhundla,indawo nokubukeka kwayo	**Sebenzisa izimo nezithombe ezi-2-D** - Umfundi ngamunye uthola iphepha nekhilayoni. - yenza abafundi ukuthi badwebe phakathi nephepha kusukela phezulu ukuya phansi,nomunye umugqa maphakthi usuka kwesokunxele uya kwesokudla. - Uthisha uyonikeza umyalelo o Beka umunwe wakho emaphakathini nesiphambano. o Dweba indilinga ebhulokini elingenhla kwesokunxele o Dweba unxantathu ebhulokini elingezansi kwesokudla o Dweba isikwele ebhulokini elingenhla kwesokudla o Dweba unxande ebhoulokini elingezansi kwesokunxele - Xoxa ngesithombe sephosta. Abafundi baphendule imibuzo ebenza bakwazi ukuchaza (ngaphandle kokukhombisa) isikhundla sento.	Iphepha Iokudweba 	

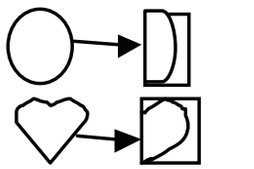
Isonto 34 **Ukujwayeza**	**Izikhathi Zokufunda Ezinconyiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.1 **Bala izinto**	• **Yethula ukuchazwa kwenombolo isi-9** **Ukukhuluma:** bala zoke izinto uze ufike koku-9 Bala uye phambili noma uye emuva zoke izinto uze ufike koku-9 Ukubala bephimisa 1-10 **Gcizelela izinombolo zesikhundla:** othisa bepakisha izinto ezi-6 ngemigqa. Khomba into ngayinye uma uyibala *okokuqala, okwesibili, okwesithathu nokwesine. okwesihlanu nokwesithupha* **Gcizelela ulwazi " okuningi nokumbalwa"** Shaya izandla kaningana …..IMA Shaya izandla kambalwa. Uthisha ushaye kuze kufike koku- 9. Buza imibuzo ukuthi izandla uzishaye okuning/okumbalwa **Ukusebenzisa umzimba** Yenza abafundi: - Babale kufike koku- 9 bekhuphuka izitebhisi.. - Badwebe inombolo -9 esihlabathini/phansi bahambe phezu kwayo. - Shaya izandla ka-9 . - Ukubona izinombolo 1 kuya-9 ngesethi yezimpawu zezinombolo ezinkulu - Sebenzisa noma ngabe yikuphi okucaBangayo okungenza abafundi bathole okuchazwa inombolo 9 ngemizimba yabo.	Imilolozelo nomculo wezinombolo isethi yezimpawu zezinombolo ezinkulu	Izinsuku 2

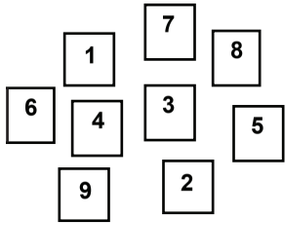
Isonto 34 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.6 Amasu okuxazulula izinkinga	**Ukusebenzisa izinto eziphathekayo ezi3-D** Uthisha wakha umugqa wezinombolo noma isitebhisi phansi - OUhisha unika umyalelo othi ; - Njalo IMA ku-0 noma qala ku-0 - Njalo bala uma unyakaza - Nyakaza uya kunombolo-5.Ubuye uye kunombolo-2. Unyakaze uye phambili uya kunombolo -8. - Nyakaza uye kunombolo-8 uqhubeke unyakaze ka-1. Nyakaza ka-2 uye emumva - Ubani oza emumva kuka-3 ? - Ubani oza ngaphambi kuka-7? - Thuthukisa ukuqaphela ukugcinwa kwezinombolo ngokwenza abafundi bapakishe izinto zokubala eziyisishiyagalolunye ngezindlela ezehlukene isb.  Uma bebala,inombolo yezinto ayiphazamiseki ubungako, isikhundla noma ukufana kwazo isibonelo: - Hlela izinkinobho eziyi-9, amapensela ayi-9, amahuphu ayi-9, abafundi abayi-9 njll. - Zibale ngokuzihlela ngokuhlukana, isib. Zibale ngokuzendlala, ngokuzisondelanisa,emgqeni noma zipakishwe. . **Sebenzisa izimo nezithombe ezi -2-D** Sebenzisa inombolo 9 esimweni esijwayelekile - Yenza abafundi - Qondanisa amakhadi ezithombe avezwayo nenani lamachazi. Pakisha inanai lezinombolo elifanato.	Inombolo yesitebhisi 0 1 2 3 4 5 6 7 8 9	

Isonto 34 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
1.3 **Izimpawu namagama ezinombolo**	• **Bona izimpawu namagama ezinombolo** **Ukusebenza komzimba** - Beka izinto -5 emgqeni - Yenza abafundi bakubuke kahle - Abafundi babheka eceleni , uthisha asuse okukodwa - Abafundi kufanele basho ukuthi yiphiint esusiwe - Iphindisele into uphinde kaningana bese uqhubekela phambili ususe oku-2 nokunye okungaphezulu. Yenza abafundi: - Khetha uphawu lwenombolo -9 negama lenombolo phakathi kwamakhadi avezwayo - Beka ikhadi lophawu lwenombolo phansi ngokulandelana kokuhleleka kwezinombolo - Beka amakhadi ezimpawu zezinombolo ngokuhlukana Hlukanisa abafundi ubenze amaqembu amancane uthisha anike iqembu ngalinyeisethi yamakhadi ezimpawu ezinombolo Nikeza abafundi imiyalelo isib. - Thinta inombolo 4, beka indololwane kunombolo- 8, hlala phezu kunombolo 3, gijima uzungeze inombolo- 5 kahlanu njll. - Dlala imidlalo ngokuxumanisa inani lezinto zokubala kanye negama lenombolo, uphawu lwenombolo,amachashazi nekhadi lezithombe. - Qinisekisa uuphawu lwenombolo negama lenombolo njalo kuxhunyaniswa nenombolo efanayo yezinto	5 izinto (ezibonwayo) izinto zokubala  Amasethi ambalwa amakhadi afaka izinombolo 1-kuya 9  Amakhadi avezwayo anezimpawu zezinombolo, izinombolo magama, amachashaza nezithombe isib.  Izinto zokubala	

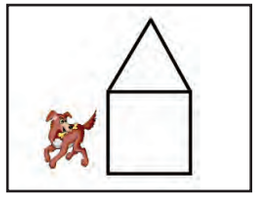
Isonto 34 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	**Landela izinkomba ukunyakaza noma ukuba sendaweni ethile** • **Thuthukisa umqondo wezinkomba** **Ukusebenzisa umzimba** - Dweba unxantathu omkhulu, noma isikwele phansi - Abafundi bayohamba eduze kwesimo besho ukuthi bajikela kwesokunxele,noma kwesokudla bekhombisa ngezandla zabo. **Sebenzisa izinto eziphathekayo ezi- 3-D** Dweba unxantathu omkhulu noma isikwele ephepheni ulibeke phansi. Yenza umfundi; - Adudule inqola eduze kwemigqa. - Abanye abafundi bazolula izandla zabo zesokunxele noma sokudla behambisana nenkomba besho bethi esokunxele esokudla. Yenza abafundi ; - Chaza into ngezindlela ezehlukene isib. udoli(ngemumva/ngaphambili), indlu(ngemumva/ngaphambili) ingaphamli/ngemumva lesikole, imoto (ngaphambili/ ngemumva) kuncike ukuthi umi kuphi. - Abafundi bachaza ukuthi babonani isib.uma kunesihlahla bachaza isikhundla sesihlahla. **Sebenzisa izimo nezithombe ezi-2-D** - Yenza abafundi bathole ulwazi lokuya phambili/emumva ngokuveza izithombe zezinkomba.	Izimo ezinkulu ezidwetshwe ephepheni Imoto yokudlala Unodoli Indlu Imoto Izithombe ezibonisa inkomba, isib. inkomba yemoto ehamba ngayo nenkomba yomuntu ahamba ngayo.	Usuku olu-1

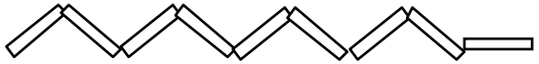
Isonto 34 Ukujwayeza	Izikhathi Zokufunda Ezinconyiwe: Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.3 **Izimo ezinhlangothi mbili (2-D)**	**Bona, ukhombe amagama ezimo ezi 2-D ekilasini nasezithombeni bese zihlelwa.** • **Gcizelela ulwazi olumayelana nendilinga, unxantathu, isikwele nonxande.** **Ukusebenzisa umzimba** Yenza abafundi basebenze ngababili; - Dweba izimo emhlane womngani wakho ngomunwe. Omunye uzosho ukuthi yisiphi isimo. **Sebenzisa izinto eziphathekayo ezi-3-D** Nikeza izimo ezisambalomdwebo ngobungako nogqinsi obuhlukene. Yenza abafundi; - Hlela izimo ijiyometri ngalendlela isib.izindilinga, onxantathu, izikwele nonxande. - Hlela izimo ijiyometri ngobungako - Hlela izimo ezisazbalomdwebo ngemibala. **Sebenzisa izimo nezithombe ezi-2-D** Yenza abafundi; - Basike izimo ezibaliwe ngenxa ephepheni. Ezifaka izimo ezinkulu nezincane nonxantathu bama-engela ahlukene. - Hlela izimo ezihlukene ndawonye. - Lungisa isithombe esakhiwe ngezimo ezisikiwe ngesikhathi womsebenzi wobuciko.	Izinhlobonhlobo zezimo Iphepha elinezindilinga,onxantathu,nezikwele nonxande isib.  Okufaka izimo ezinkulu nezincane nonxantathu bamaengela ahlukene isib. 	1 suku

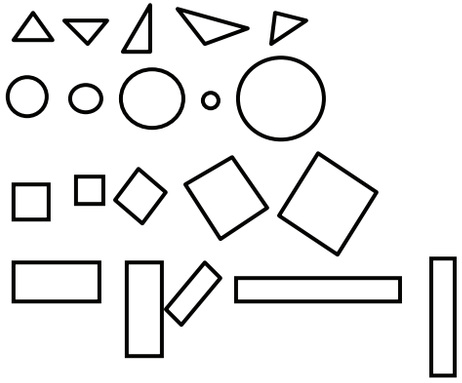
Isonto 34 **Ukujwayeza**	**Izikhathi Zokufunda Ezinconyiwe:** **Umsebenzi kathisha olungiselelwe ikilasi , uthatha imizuzu okungenana engama 30 (okungenani ka 5 ngesonto)**		
Isihloko	**Amanothi Acacisayo**	**Izinsiza kufundisa ezinconyiwe**	**Isikhathi Esilinganisiwe**
3.4 **Okufana nse nxa zombili**	• **Thuthukisa ulwazi ukuthi kunomugqa ohlukanisa izinto zifane nse nxazombili** **Sebenzisa izinto eziphathekayo ezi- 3-D** - Buka izinto zangempela ezingatshengisa umugqa ohlukanisayo. (olunye uhlangothi lubukeka lufana nolunye) isib. Uvemvane, iqabubunga njll. - Uthisha nabafundi baqoqa izithombe zezinto ezikhombisa umugqa ohlukanisa kabili kufane nse isib.indlela okupendwe ngayo izindlu, indlela okwakheke ngayo amathayili, amavazi namapharashudi. **Sebenzisa izimo nezithombe ezi-2-D** - Amfundi basika izimo ezisanhliziyo noma amavazi ezimbali ephepheni eligoqiwe laba uhhafu bese beluhlobisa ngesikhathi sobuciko obubonakalayo.	  Iphepha eligoqwe uhhafu	1 usu

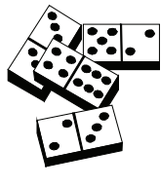
Isonto 35	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
1.1 **Bala izinto**	• **Gcizelela ulwazi olutholiwe evikini le-34 oluphathelene nenombolo-9** **Ukukhuluma:**Ukubala ngezinto nsukuzonke ufike ku-9 Ukubala uya phambili nokubala uhlehle ufike ku-9 Ukubala uphimisa usuka ku 1-10 **Ukugxilisa ukubala ngokubala ngakubili usebenzisa umlolozelo wezinombolo** **Ukugxilisa ulwazi "lokuningi "no"kumbalwa"** Shaya ihlombe izikhathi eziningi ….IMA Shaya hlombe izikhathi ezimbalwa. Uthisha ushaya izandla kuze kube ka-9 Buza umbuzo ukuthi yiliphi ihlombe elikhale kaningi /mncane	Umlolozelo wezinombolo neculo	Usuku olu-1
	Ukusebenzisa umzimba Asidlale umdlalo Uthisha ubeka ikhadibhodi elikhulu elinenombolo nezimo noma abeke phansi amakhadi anezinombolo ezilandelanayo i-9 Uthisha unika abafundi imiyalelo njengo- - Hlala kunombolo 6. - Beka unyawlwakho kunombolo 3. - Gijima uzungeze unombolo 2 kathathu - Kheleza kunombolo1. - Uthisha usengawaxuba amakhadi ezinombolo aphinde awaphonse phansi	Ikhadibhodi elikhulu elinesethi lezinombolo. Ungazipenda bese uzuvala ngoplastiki noma uzibeke ekhalibhodini eliqinile 	
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Ukusebenzisa izinombolo esimweni esijwayelekile** **Ukusebenzisa izinto eziphathekayo ezingonhlangothi ntathu-3-D** Abafundi ba-: - Bala izinto ekilasini - Bala ngezinto zokubala - Uthisha ubeka izinto eziningi phezu kwetafula.Abafundi bayaqagela ukuthi zingaki lezizinto eziningi ezibekiwe Bayazibala emuva kokuqagela.	Izinto zokokubala izinto ekilasini	Usuku olu -1

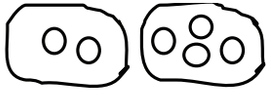
Isonto 35	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
	Ukusebenzisa imidwebo ngezimo ezinhlangothimbili 2-D noma izithombe Abafundi baya-: - Badlala umdlalo wokuhlanganisa inombolo nezinto zokubala, negama laleyo nombolo, inombolo,amachashazi kanye namakhadi ezithombe. - Yiba nesiqiniseko sokuthi inombolo negama lenombolo kuyahambisana nenani lalezozinto zaleyonombolo. - Bhala phezu kwenombolo isi- 9 ngekhilayoni.	iflashikhadiyezinombolo,amagama ezinombolo,amachashazi,nezithombe isib.  Izinto zokubala namakhilayoni	
1.7 **Ukuhlanganisa nokususa**	• **Xazulula izibalo zamagama ngokuphimisa esimweni esifaka izinombolo 1 kuya ku-9.** **Ukusebenzisa umzimba** - Ukuxoxa indaba yesihlahla nenyoni, kwafika enye inyoni yahlala.Zingaki izinyoni ezisesihlahleni manje?Abafundi sebeyenza samdlalo begqoke amamasiki 1 no 1 kukunika oku-2. Siphinde lesisifundo uze ufike ezinyonini ezi-9	Isithombe sesihlahla esikhulu	Usuku olu-1
	Ukusebenzisa izimo noma izithombe eziphathekayo ezingonhlangothi ntathu 3-D - Umngani unezinto zokubala ezi-8.isib.izilwane eziyiplasitiki umngani unenye eyodwa. Zingaki izilwane abanazo sezizonke? 8 no 1→9	Okokubala onku-9	
	Ukusebenzisa izimo nezithombe ezingonhlangothi mbili 2-D - Nika umfundi ngamunye iphepha lokubhalela elinesithombe sesihlahla. Abafundi babeka okokubala okukodwa phezu kwesihlahla. Qhubeka ubeke ngakunye phezu kwesihlahla.	Iphepha lokusebenzela elinesihlahla nokokubala	

Isonto 35	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
3.1 **Isikhundla, isimo nokubukeka kwento**	• **Chaza isikhundla sezinto ezimbili ezinobudlelwano kwenye** **Ukusebenzisa umzimba** - Umfundiucela umngani ukuba ame phakathi kwezinto ezimbili/umfundi - Umfundi ucela umngani ame eduze kwentombazane egqoke ilokwe eliluhlaza njengesibhakabhaka - Umfundi ucela umngani ukuba ame eduze nomfana ufake izicathulo ezinsundu. **Ukusebenzisa izinto ezingonhlangothi ntathu 3-D** • Lengisa intambo phakathi kwezinto ezimbili. • Abafundi balengisa izingubo belandela imiyalelo isib. - “lengisa ishethi ngasesandleni sokunxele - “lengisa ilokwe ngasesandleni sokudla seshethi“ - lengisa iduku lobuso eduze kwe… njll..” - lengisa ibhulukwe phakathi kwe… **Ukusebenzisa ozinto noma izithombe ezingonhlangothi mbili 2-D** • Dweba isithombe sendlu ulandela imiyalelo kathisha isib.. - Dweba uphahla lwendlu ephepheni phezulu - Dweba izindonga zendlu maphakathi nephepha njll. - Dweba inja ngasesandleni sokunxele yendlu. Iphepha lokubhalela alibe likhulu ngokwanele ukuze ukwazi ukudweba izimo zingathintani ukwakha isithombe sendlu. 	 Iphepha lokubhalela Amakhilayoni	Usuku olu-1

Isonto 35	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
3.3 **izimo ezinhlangothi mbili (2-D)**	**Bona, ukhombe bese usho amagama ezimo ezinhlangothi mbili -2-D ekilasini nasezithombeni** - **Ukugcina izimo** • **Ukugcizelela ulwazi olutholwe ngonxande** **Ukugcina izimo kuyikhono lokuhlukanisa phakathi kwezimo endaweni ekuzungezile noma ngabe ubungako noma ubungako bama-engela.** **Ukusebenzisa izinto ezinhlangothi ntathu 3-D** Ukuhlukanisa abafundi ngamaqembu. - Nika iqembu ngalinye amabhuloki angonxande abayi-9ahlukene ngobungako Yenza abafundi ba: - Hlela amabhuloki angonxande ngobungako babo obuhlukene uwabeke ngobungako obufanayo. - Bala amabhuloki okwakha ukuthi mangaki. Uthisha ubanika imiyalelo elendeleyo;. - Beka amabhuloki okwakha angonxande uwamise ulayini.  - Beka amabhuloki angonxande ame abheke phezulu.  - Bekaamabhuloki angonxande ngolayini ogwinsizayo.  - Uthisha unika umfundi ngamunye isinqamu sewuli. Abafundi bazenzela isimo sikanxande ngewuli.  Uthisha ukhomba unxande owenziwe umfundi ngamunye ukuthi abafani onxande babo kodwa bayibo onxande	Iqembu ngalinye lithola onxande abayi-9 amabhuloki okwakha anobungako obungafani Isinqamu sensonto/wuli	Usuku olu-1 noma khetha owodwa walemisebenzi

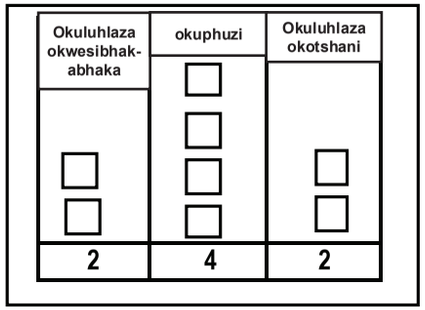
Isonto 35	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
	Ukusebenzisa izimo noma izithombe ezinhlangothi mbili 2-D - Uthisha ubanika amaflashikhadi ahlukene angama-20 eyodwa inezimo ezi-5 izindilinga, onxantathu,izikwele, nonxande ngayinye isib.  Uthisha uhlukanisa abafundi ngamaqembu. Yenza abafundi ba; - Khetha amaflashikhadi kanxande kwezinye izimo, Yenza abafundi ba; - khetha zonke izithombe ezinezimbali phakathi nezithombe ezisesihlahleni namacembe njll.	Amakhadi anaflashikhadi ahlukene anga-20, ikhadi ngalinye linezinhlobo ezinhlanu zezimo onxantathu, izindilinga, izikwele, nonxande	

Isonto 36	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
1.1 **Bala izinto**	**Gcizelela ulwazi olutholiwe olufaka izinombolo 1-9** **Ukukhuluma;** ukubalaizi nto ufike ku-9 nsukuzonke ukubala uya phambili ubuye uye emumva ufike-9 Ukugcizelela ukubala ngakubili usebenzisa umlolozelo wezinombolo **Ukugcizelela ulwazi "okuningi" no "okumbalwa".** Shaya ihlombe izikhathi eziningi …….**IMA** Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya ihlombe ka -9. **Ukusebenzisa izinto ezinhlangothi ntathu3-D** - beka izinto ngamaqoqo ano-1-9 bese ubala kuzwakale - dlala umdlalo ezinombolo zamadomino	Amaculo nemilolozelo ezinombolo  Izinto ekilasini Izinombolo namadomino	Usuku olu-1
	ukusebenzisa izimo nezithombe ezinhlangothi mbili 2-D Nika umfundi isithombe, idothi, inombolo noma ikhadi legama lenombolo Abafundi benza ngendlela uthisha abayale ngayo;. - Abafundi bahlala benza indilinga - Uthisha ubiza inombolo isib.9 abafundi banesithombe, idothi, inombolo, nekhadi legama lenombolo elimele isi-9, bahamba endilingeni besho "nginosishiyagalolunye" - Phinda nakwezinye izinombolo. - Uma wonke umfundi esethole ithuba lokuba nenombolo,biza izinombolo ngokulandelana kwazo - abafundi bayama bephakamise amakhadi abo emoyeni uma kubizwa inombolo yakhe.. - Buka ukuthi abafundi bayakwazi ukuzihlela belandelanisa izinombolo kusuka 1 kuya 9 - Bukaukuthi abafundi bayakwazi yini ukulandelanisa wonke amakhadi amele izinombolo 1,2,3,4, uze ufike ku-9.	Amasethi anele amakhadi ezinombolo afake izinombolo 1 kuya 9 ekilasini umfundi ngamunye uthola iflashikhadi	

Isonto 36	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Qhathanisa uthi yikuphi kulamaqoqo amabili owanikiwe;** - **Kuningi kuno…** - **Kuncane kuno…(kumbalwa)** - **kuyalingana(kuyafana)** **ukusebenzisa izinto eziphathekayo kusebenza izinto ezi 3-D** - uthisha unika izinto ezahlukene njengeamacembe,amatshe,izivalo zamabhodlela,amakhilayono, amabhuloki njll. - Yenza abafundi ba; - zihlela ngamaqoqo isib.onke amatshe ndawonye - bala izinto ngezinombolo eqoqweni ngalinye. - Tshengisa ukuthi yiliphi iqoqoelino"kuningi" "okumbalwa" no"kulinganayo" Amasethi ahlanganisa izinombolo ku-9; - Abafundi bahlala phansi benza "izidleke" ezimbili ngewuli - Uthisha unika abafundi umyalo ukuba babeke izinto ezi-2 esidlekeni esisodwa ubuye ubeke ezinye ezi-4 kwesinye isidleke - Babuze imibuzo njenge;Yisiphi "isidleke" esino"kuningi kune""okumbalwa kune" "nokulinganayo"izinto zokubala?isib,isidleke esinezinto zokubala ezi-2 kuncane kunezinto zokubala e-4 ezisesidlekeni.  - Yenza abafundi bakhe "okuningi kune…" "okuncane kune" noku"linganayo"Lamasethi ezinombolo ufike-9	Izinqamu ezimbili zewuli/insonto kumfundi ngamunye Izinto zokubala ezi-9	Usuku olu-1

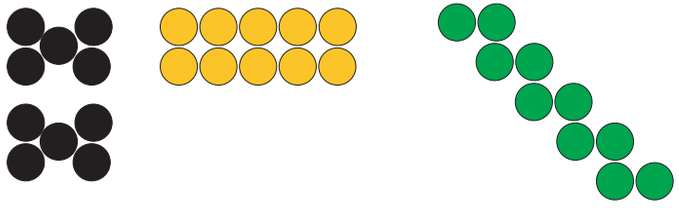
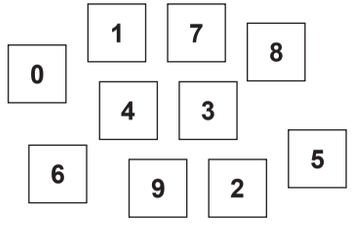
Isonto 36	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
1.13 Ukuhlanganisa nokususa	• **Xazulula izinkinga ozinikeziwe zokuhlanganisa nokususa ngokuphimisa kufaka izinombolo 1-9** **Ukukhuluma:uku**bala izinto ufike ku-9 nsukuzonke. ukubala uya phambili nokubala uye emumva ufike ku-9 ukugcizelela ubala ngakubili usebenzisa umlolozelo wezinombolo **Ukugcizelela ukubala ngokwezikhundla**: Uthisha upakisha izinto ezi-6 emgqeni. Khomba into eyodwa ngesikhathi ubala *owokuqala,owesibili, owesithathu, owesine,owesihlanu,owesithupha…* **Ukugxilisa ulwazi "lokuningi "no"kumbalwa"** Shaya izandla izikhathi eziningi ….IMA Shaya izandla izikhathi ezimbalwa. Uthisha ushaya izandla kuze kube ka-9 Buza umbuzo ukuthi yiliphi ihlombe elibe liningi /mncane	Amaculo nemilolozelo ezinombolo	Usuku olu-1
	Ukusebenzisa umzimba - Uthisha ubiza umfundi-1 eze ngaphambili - Uthisha ubeka ubuhlalu namanani ahlukene (kufike 9) esandleni somfundi ngamunye. Isib. obu-4 esandleni esisodwa nobu-5 kwesinye isandla - Uthisha uhlela abafundi aBanga-9 iqembu lilinye, - Abafundi bahlala phansi. - Uthisha ucela abafundi aba-2 a ukuba basukume - Uthisha ubabuza ukuthi "Bangaki abafundi abahleli phansi?"	Ubuhlalu noma izinto zokubala	

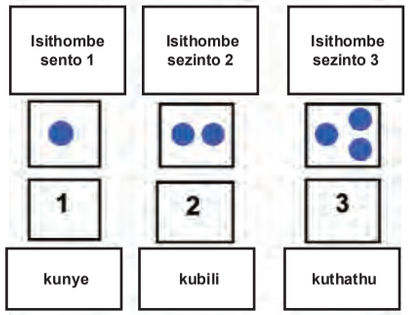
Isonto 36	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
1.13 Ukuhlanganisa nokususa	**Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu 3-D** Abafundi bahlala phansi. - Umfundi ngamunye uthola ubuhlalu obu-9 obubekwe enkomishini yepulasitiki nesosi . - Thatha ubuhlalu obu-6 enkomishini bese ububeka esosini.Thatha obunye ubuhlalu obu-3 Bungaki ubuhlalu obusele kulobu obusale esosini? - Thatha ubuhlalu obu-4 esosweni ububeke enkomishini yepulasitiki.Thatha obunye obu-5 ubufake kobusenkomishini yepulasitiki. Bungaki ubuhlalu obusesosini? Obu-9 susa 4 ususa obu-5→0. - Thatha ubuhlalu obu-4 enkomishini yepulasitiki ubufake esosini. Bungaki ubuhlalu obusele enkomishini yepulasitiki? obu-9 thatha obu-4 →5. **Susa ubuhlalu obu-5 enkomishini yepulasitiki ububeke esoseni.Bungaki ubuhlalu obusele enkomishini yepulasitiki? Obu-5 susa obu-5→0. Ukusebenzisa izimo nezithombe konhlangothi mbili 2-D** Ukuhlukanisa abafundi ngamaqembu.Nika iqembu ngalinye isethi lezthombe zamafleshikhadi. - Bala izithombe ezi-6 kufleshikhad.Uma uzofaka enye ifleshikhadi enezithombe ezi-2 kuyona,zingaki izithombe ezikhona manje? ezi- 6 nezi 2 →8. - Bala izinto ezi-8 ekhadini lezithombe.Uma umboza izithombe ezi-3, zingaki izithombe ozibonayo? Ezi-8 ususa-3→ 5. - Pakisa izinto zokubala zenani elifanayo.	Sebenzisa lokho onakho uma ungenawo amankomishi namasosi Amasethi ambalwa amaflashikhadi ezithombe	
2.1 **Amaphethini okusazibalo mdwebo**	• **Kopisha iphethini yomsindo** **Ukusebenzisa umzimba** - Uthisha uhlukanisa abafundi ngamaqembu amathathu.Hlebela bese utshengisa ngokwenza eqenjini ngalinye ukuthi imoto inamsindo muni bese benza ngokuyikho. - Ngesikhathi uthisha ekhomba iqembu, lelo iqembu lenza umsindo walokho elikukhethelwe.isib. ngenkathi uthisha - Woosh, brrrm, zonk / Woosh, brrrm, zonk.	Izithombe ezintathu zezithuthi noma imishini.	Usuku olu-1

Isonto 36	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**IZINSIZA KUFUNDISA EZINCONYIWE**	**ISIKHATHI ESILINGANISIWE**
5.1 **Qoqa uhlele izinto**	• **Gcizelela ulwazi lokuphathwa kolwazi oluqokelelwe** **Ukusebenzisa izinto ezinhlangothi ntathu 3-D** Yenza abafundi badlale lomdlalo: Hlela bese ubeka ngamaqoqo imibala yenhlama yokudlala abayithandayo yeviki elilandelayo isib. - Ukuxazulula lenkinga ukuthola ukuthi yimuphi umbala wenhlama yokudlala okuyiyona abazoyisebenzisa ngesonto elizayo. **Ukuqoqa nokuhlela ulwazi** - Sebenzisa izinto eziphathekayo ukwenza igrafu njengalokhu amabhuloki, amakhubhu, Lego noma amabhuloki kaDuplo okumele imibala yenhlama yokudlala oyihlele ukuyenza isiblaza njengesibhakabhaka, okuphuzi nokuluhlaza njengotshani. - Umfundi ukhetha ibhuloki eyodwa ezomela umbala awuthandayo wenhlama yokudlala ezosebenziswa esontweni.	Amabhuloki kaLego,Duplo aluhlaza njengesibhakabhaka, okuphuzi, nokuhlaza njengotshani(okukodwa kulokhu kungasetshenziswa)	Usuku olu-1
5.2 **Okumele izinto eziqoqiwe**	**Ukudweba igrafu** - Amabhuloki apakishiwe ngokwemibala phezu kwephosta.		
5.3 **Xoxa bese usho ngezinto eziqoqiwe zahlelwa**	**Ukufunda nokuhumusha ithebula** - Ngokulandela ukukhetha kwabafundi umbala abawuthandayo kulelisonto kuzoba umbala ophuzi .  		

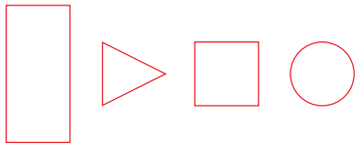
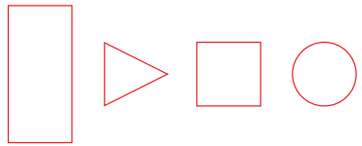
Isonto 37	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
1.1 **Bala izinto**	• **Ukwethula inombolo u 0 (uziro/okungekho)nokuthi ichaza ukuthini** **Bebala bephimisela:** Bala izinto ezisetshenziswa njalo ukufika e 10 ukusukela ku- 0 Bala uyaphambili ubuye uye emumva ufike e- 10 **Ukugcizelela ukubala ngakubili besenzisa umlolozelo** **Ukugcizelela ukubalwa kwezinombolo ezimele isikhundla:** Uthisha upakisha umugqa wezinto ezi- 6. Khomba into ngayinye ube ubala *eyokuqala, eyesibili, eyesithathu, eyesine, eyesihlanu, eyesithupha*. **Ukugcizelela umqondo "wokuningi" noku "mbalwa"** Shaya izandla izikhathi eziningi …… IMA. Shaya izandla izikhathi ezimbalwa. Uthisha uzishaya izikhathi ezi 10 Buza umbuzo yiliphi ihlombe elishaywe kakhulu/ kancane Uthisha uyachaza ukuthi u 0 uchaza "okungelutho" nokuthi ukubala ngokwangempela kuqala 1 **Ukunyakazisa umzimba** - Uthisha ukhombisa abafundi igama lenombolo u 0 - Yenza abafundi bakhombe isitho somzimba esingakhombisa okungekho (0) isib. o Umilomo yabafundi o Iminwe yabafundi	Amaculo zezinombolo nemilolozelo	Usuku olu-1
1.1 **Bala izinto**	**Izinto eziphathekayo usebenzisa izinto ezinhlangothi ntathu 3-D** - Uthisha ubeka into yokubala eyodwa esandleni sakhe esisodwa, angibeki lutho kwesinye isandla. - Uvula isandla sakhe abonise abafundi into yokubala eyodwa, bese evula lesi esinye isandla abonise abafundi ukuthi asinalutho. - Lomsebenzi ungenziwa ngokuthi uthisha asebenzise nabafundi. **Okucishe kuphatheke usebenzisa izimo ezinhlangothi mbili noma izithombe 2-D** - Uthisha ukhombisa abafundi amafuleshikhadi angenazithombe nophawu lwenombolo 10.	Izinto zokubala 0	

Isonto 37	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
1.1 **Bala izinto**	• **Yethulela abafundi ukuthi inombolo 10 ichaza ukuthini** **Bebala bephimisela:** Bala izinto ezisetshenziswa njalo ukufika e 10 **Bala uyaphambili ubuye uhlehle ufinyelele e-10** Ukubala behuba ukusuka 0-10 **Ukugcizelela ukubala ngakubili besebenzisa imilolozelo** Ukugcizelela ukubalwa kwezinombolo ezimele isikhundla: Uthisha upakisha umugqa wezinto e 6. Khomba into ngayinye ube ubala *eyokuqala, eyesibili, eyesithathu, eyesine,* eyesihlanu, eyesithupha **Ukugcizelela umqondo "wokuningi" noku "mbalwa"** Shaya ihlombe izikhathi eziningi …… IMA. Shaya ihlombe izikhathi ezimbalwa. Uthisha ulishaya izikhathi ezi 10 Buza umbuzo yiliphi ihlombe elishaywe kakhulu/ kancane	Amaculo zezinombolo nemilolozelo	Usuku olu-1 Khetha imisebenzi embalwa
	Ukunyakazisa umzimba Yenza abafundi: - Ngababili ukusukela kwinombolo ye 10 ngemizimba yabo (abafundi 4) - Bala ukufika 10 benyakaza nesigqi sesigubhu. - Ukuphakamisa iminwe. - Ukudweba inimbolo 10 enhlabathini/ phansi endlini/ phansi ngaphandle uphinde uhambe phezu kwakho. - Gxuma izkhathi ezihlanu. - Beka izinombolo zamakhadibhodi "esikhwameni sezinto ezithintwayo". - Iba nesethi yamafleshikhadi anezithombe ezimele inombolo isib. amabhola amabili ekhadini elibonisa inombolo 2. Umfundi "uthinta" izinombolo ezisesikhwameni baziqhanise namakhadi	Sika izinombolo zamabhokisi Amafleshikhadi ezimpawu zezinombolo ezinkulu	

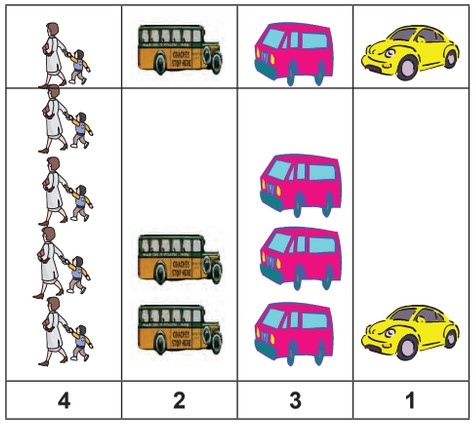
Isonto 37	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
	Izinto eziphathekayo usebenzisa izinto ezinhlangothintathu3-D Yenza abafundi ukuba: - Bakhiphe, babeke kahle izinombolo zabo zocingo besebenzisa amakhadi ezinombolo amakhulu. Bachazele ngo 0, ukuthi umele 10. - Thuthukisa ikhono lokonga izinombolo ngokubenza bakhiphe bapakishe kahle izinto zokubala ezinhlanu noma yiziphi izinto ngzindlela ezahlukene. Isib.  Uma kubalwa, isibalo sezinto asiphazanyiswa ubungako bazo, noma isikhundla, noma ukuthi ziwuhlobo olulodwa. Isibonelo: - Hlela izinkinobho 10, amapensela, amahula hups10, abafundi 10.njl. - Zibale ngendlela eyahlukile isib. Zibale zisabalele, zindawonye, sisemgqeni, noma zibekwe isitaki enye phezu kwenye.	Amakhadi anezinombolo zabafundi zocingo 	

Isonto 37	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
	Okucishe kuphatheke usebenzisa izinto ezinhlangothi mbili noma izithombe 2-D Yenza abafundi ngokwemiyalelo kathisha: - Babeke izinto ngokwamaqoqo ambanakanya izinombolo 1 uku 10 babuye bazibale lezizinto bephimisela. Uthisha uhlukanisa abafundi abenze amaqoqoqo amahlanu. Yenza abafundi ukuba: - Bahlele futhi bahlanganise amakhadi ezithombe, amafleshikhadi anamachashazi, izimpawu zezinombolo, namagama ezinombolo ezihleleke ngendlela efanele ukufika 10 isib.  - Pakisha inombolo yezinto zokubala ngaphezu kwekhadi lechashazi ngalinye	Izinto eaisekilasini Isethi yamakhadi anezithombe ukufika 10 0 Izinto zokubala	

Isonto 37	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
2.1 **Amaphethini okusazibalo mdwebo**	• **Dlala umdlalo wephethini– "Isikoshi"** Kuxutshwe nesifundo sokuvocavoca umzimba Isifundo samAkhono Empilo **Ukunyakazisa umzimba** - Bahambe bazungeze ikilasii.uma uthisha enza uphawu oluthile, noma uma umculo uthula, uthisha ubiza igama lomfanekiso/ isimo. Abafundi benza lesosimo ngeminwe yabo.Bangabuye bezenze iqembu bese benza isimo esithile ngemizimba yazo . - Dweba iphethini ngezansi phansi endlini/ phansi ngaphandle noma kuveranda ukwenzela ukuthi abafundi bazonyakaza ngendlela thize.  Xoxa ngamaphethini isib. - Buza imibuzo efana nalena elandelayo: - "Yisiphi isimo esiza emuva kukanxande osekuqaleni?" - "Yisiphi isimo esiza ngaphambi kwendilinga osekuqaleni? Abafundi balandela iphethini ngalendlela elandelalayo: - Uthisha uthi: "Jabu, ugxuma ngaphambi kuka Thandiswa" ,kanti wena Musa,ungagxuma ngemuva kuka Kabelo" - Gxumela kunxande ngezinyawo zombili. - Gxumela kunxantathu ngonyawo langakwesobunxele. - Gxumela esikweleni ngonyawo langakwesokudla. - Gxumela kundilinga ngezinyawu zombili ujikise umzimba wakho ngenkathi umi kundilinga. - Qedela iphethini.	Isibonelo sephethini enikeziwe edwethswe phansi	Usuku olu-1

Isonto 37	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
2.1 **Amaphethini okusazibalo mdwebo**	**izinto eziphathekayo usebenzisa izinto ezinhlangothi ntathu 3-D** - Umfundi ngamunye uthola lemifanekiso elandelayo:  Uthisha wakha iphethini ngezimo zakhe Yenza abafundi: - Bakopishe iphethini besebenzisa izimo ezingenhla. - Ukuzakhela amaphethini ngemifanekiso abayinikiwe.	Umfundi ngamunye uthola lemifanekiso elandelayo: 	
3.1 **isikhundla,indawo nokubukeka kwayo**	**Ukulandela izinkomba ukunyakaza noma ukuzibeka endaweni ethile** • **Thuthukisa ukuqonda izinkomba ngokulandela imiyalelo kanye nesinxele, kanye nesokudla** **Ukunyakazisa umzimba** Yenza ukuba abfundi balandele imiyalelo kathisha: - Buka phezulu /buka phansi/buka ukhuphuke. - Goba ubheke phansi / goba uye ngezansi. - Phakamisa unyawo lwangakwesokunxele /phakamisa unyawo lwangakwesokudla. - Gaqa ngamadolo uzungeze itafulu. - Hamba uyephambili/hamba uyephambili. - Faka izandla zakho phakathi / zikhiphe. - Mana ngakwesokudla lesitulo/ mana ngakwesokunxele lesitulo - Mana ngaphambi kwesitulo sakho/ ngemuva kwesitulo. - Mana phakathi kwezitulo ezimbili. - Buka ngakwesokudla / buka ngakwesokunxele - Phenduka ngonyawo lwakho lwangakwesokunxele - Phenduka ngonyawo lwakho lwangakwesokukudla.	Imiyalelo evela kuthisha. **Amagama asetshenziswayo:** Phezulu/phansi Phakathi/ phandle Phezulu/ phansi Phambili/ emuva Ngaphambili/ ngemuva ngaphezulu/ ngenhla/ ngaphansi/ ngezansi lelicala/ elinye icala Eceleni kwesobunxele/ kwesokudla Phakathi	Usuku olu-1

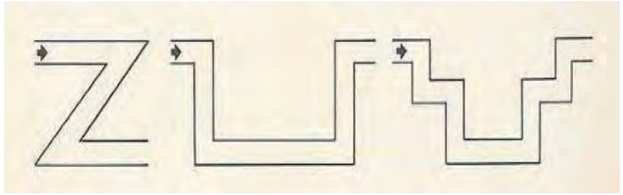
Isonto 37	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
	Izinto eziphathekayo usebenzisa izinto ezinhlangothi ntathu 3-D Abafundi mabenze lokhu okulandelayo ebhodini: - Dweba uqhubeke uzungeze indingilizi  - Dweba ulayini usuke ngakwesobunxele uye ngakwesokudla  - Dweba imigqa esuka phansi iya phezulu.  - Uthisha udweba amachashazi amabili bese abafundi bedweba umugqa owahlanganisayo. 	Ibhodi	

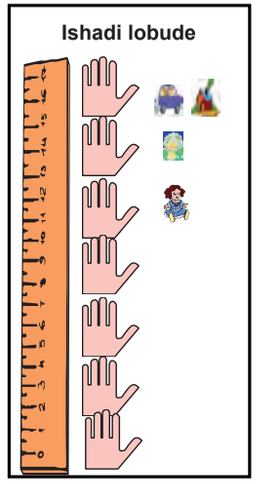
Isonto 37	Isikhathi esinconyiwe sokufunda: Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
5.1 **Qoqa uhlele izinto**	• **Gcizelelwaulwazi lokuphathwa kolwazi oluqoqiwe** **izinto eziphathekayo usebenzisa izinto ezinhlangothintathu 3-D** - Uthisha uyaxoxa ezama ukuthola ukuthi umfundi ngamunye uya kanjani esikoleni. - Wakha okusazibalomudwebo omele abafundi abahamba ngezinyawo, ngethekisi, ngezimoto zabazali nalabo abeza ngebhasi. Isib.	Izithombe zamabhuku zethekisi, ibhasi, imoto, abafundi abahambayo. Uma ungenazo izithombe ungaciciyela uzidwebele ezakho	Usuku olu-1
5.2 **Okumele izinto eziqoqiwe**	 4 2 3 1		
5.3 **Xoxa bese usho izinto eziqoqiwe zahlelwa**	- Ukuhlaziya imiphumela ngokusebenzisa imibuzo		

Isonto 38	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
1.1 **Bala izinto**	• **Gcizelela ulwazi olutholwe evikini 37 oluxuba izinombolo 0 ukuya 10** **Ukukhuluma:** Bala izinto ezisetshenziswa njalo ukufika e -10 Bala uyaphambili uye emumva ufike e- 10 Ukubala behuba ukusuka ku 0 ukuya 10 **Gcizelela ukubala ngakubili besenzisa umlolozelo** **Gcizelela ukubalwa kwezinombolo ezimele isikhundla:** Uthisha upakisha umugqa wezinto e 6. Khomba into ngayinye ube ubala *eyokuqala, eyesibili, eyesithathu, eyesine, eyesihlanu, eyesithupha*		Usuku olu-1 noma Ungakhetha eminye yemisebenzi
	Gcizelela umqondo “wokuningi” noku “mbalwa” Shaya izandla izikhathi eziningi …… IMA. Shaya izandla izikhathi ezimbalwa. Uthisha uzishaya izkhathi ezi 10 Buza umbuzo yiliphi ihlombe elishaywe kakhulu/ kancane	Imilolozelo yezinombolo nezingoma	
	Ukunyakazisa umzimba - Uthisha ukhombisa abafundi igama lenombolo u 0 - Uthisha udweba izindilinga 11 (0 ukuya10) izindilinga enkundleni yokudlala noma besebenzisa amahulahubhu. Ubhala izinombolo 0 ukuya 10 ngaphakathi kwendilinga ngayinye. Uthisha ubiza inombolo kuthi umfundi aphonsele isakana lokudlala endingilizeni ebiziwe - Khumbuza abafundi ukuthi u 0 uchaza okungelutho.Uma umfundi ephonsa isakana lokudlala kwindingiliza engu 0 uzophuma emdlalweni - Umfundi uphonsa isakana lokudlala kwindilinga ehamambisana nedothi ne/ noma ikhadi lesithombe eliboniswe nguthisha. - Umfundi uphonsa isakana lakhe endilingeni ebonisiwe kwiphawu - Qhubeka usebenzise amakhadi amagama ezinombolo ngendlela efanayo.	Izikhwanyana zokudlala 10 Dweba izindilinga emhlabathini, ngaphandle phansi noma endlini phansi noma usebenzise uhulahubhu	

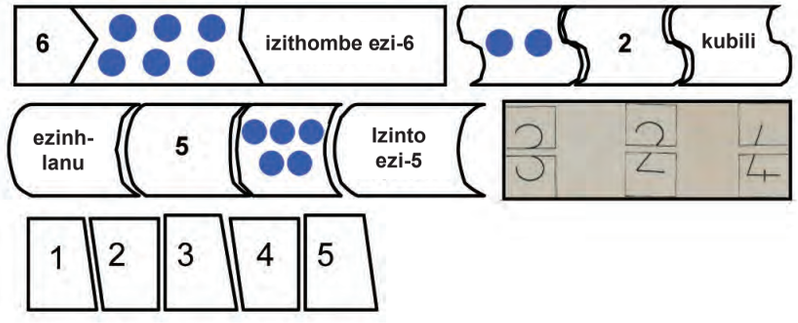
Isonto 38	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
1.3 **Izimpawu namagama ezinombolo**	**Bona bese ukhomba izimpawu namagama ezinombolo** **Sebenzisa izinto ezinhlangothi mbili 2-D noma izithombe** Masidlale umdlalo: - Uthisha ubhala igama lenombolo kwi cala elilodwa lekhadi abhale uphawu lwenombolo kwelinye icala lekhadi afake izinombolo. - 0 ukuya 10 (Sebenzisa amasethi ambalwa). - Abafundi bafunda igama lenombolo baqagele uphawu lwenombolo - Baphendukezela ikhadi bazilungise.	Isethi yamakhadi lezinombolo embandakaya izinombolo 0-10 Amakhadi ambandakanya izinombolo 1-10 negama lenombolo kwicala elilodwa, nophawu lwenombolo kwlinye icala. (Yakha amasethi ambalwa ukuze umfundi abe nekhadi lakhe).	
1.4 **Chaza, qhathanisa bese uhlela izinombolo**	• **Ukwethula izinombolo ezimele isikhundla– eyokuqala, eyesibili, eyesithathu, eyesine, eyesihlanu, eyesithupha** Lolulwazi luthuthukiswa kangcono ngokuhamba kwesikhathi ngokusetshenziwsa nokuphawulwa kwezimo zemvelo njengoba zenzeka ekilasini isib.ukuma ulayini uma bephumela ngaphandle “uSiya usekuqaleni,uHelenungowesibili .....” **Ukunyakazisa umzimba** - Yenza ukuba abafundi benze umqhudelwano wokugijima.Ngubani ubesekuqaleni, ekuqaleni, ngubani ophume isibili, kanti ngubani obesekugcineni? **Dlala umdlalo – “Iyona yiphi”?** - Cela abafundi ukuba bahlale ezitulweni ezinhlanu benze ulayini. - Uthisha uthi: “NgicaBanga ngomunye walababafundi. Umfundi wembethe ijezi elibomvu.” - Eqala ngomfundi ohlezi phambili, uqala ngomfundi uqhubeka nolayini, ethinta umfundi ngamunye abuze: ingabe umfundi usekuqaleni, ungowesibili, ungowesithathu? Yenza ukuba abafundi aba-5 bame ezitebhisini ngaphandle. Uthisha ubeka ikhadi lophawu lwenombolo ngaphansi kwesitebhisi sengane ngayinye. Ngibonise ukuthi yimuphi umfundi omi: - Esitebhisini sokuqala. - Esitebhisini i sesibili. - Esitebhisini sesithathu njl. Umfundi osesitebhisini sokuqala uphakamisa ikhadi lophawu lwenombolo kuphela uma impendulo iphume kubafundi abasekilasini lalowomfundi.Qhubeka uze ufike kunombolo 6.	Izithulo ezinhlanu Isethi yamagadi ezimpawu zezinombolo ezimbandakanya izinombolo 1 ukuya 10 Ciciyela uma kungenazinyathelo	Usuku olu-1

Isonto 38	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
1.7 **Ukuhlanganisa nokususa**	• **Xazulula izibalo zamagamau ukukhuluma nokuchaza izixaxululo zezinkinga** Inombolo- 10 **Ukukhuluma:** Ukubala izinto abazisebenzisa njalo kufinyelele e-10. Bala uyaphambili noma uhlehla ufike 10. **Gcizelela umqondo "wokuningi" noku "mbalwa"** Shaya izandla izikhathi eziningi …… IMA. Shaya izandla izikhathi ezimbalwa. Uthisha uzishaya izkhathi ezi 10 Buza umbuzo yiliphi ihlombe elishaywe kakhulu/ kancane **Izibonelo:** 1. Bekunamantombazana a 5endlini kwangena amanye amahlanu. Sekunamantombazana amangaki manje? 5 no 5 → 10. 2. Bala izinto zokubala e 7. Bala okubili uqhubeka.Bala okukodwa uqhubeka. Kungaki sekukonke? 7 no 2 no1 → 10. 3. Kunezinto zokubala 10 phezu kwetafula. Kusele 4 kuphela. Zingaki ezisusiwe? oku 10 susa oku 6 → 4. 4. Unamamabula awu 10 . Ususa ama 3. Mangaki asele? oku10 susa uku 3→7 5. Wenze amakhekhe a10. Uthengise amakhekhe ama 2. Unamangaki asele?	Izinto zokubala	Usuku olu-1
3.1 **Isikhundla, isimo nokubukeka kwento**	• **Landela izinkomba unyakaza noma ukuzibeka endaweni ethize ekilasini** **Ukunyakazisa umzimba** - Uthisha ucela abafundi ukuba bame ngemuva ekilasisini (ukuvuleka komnyango kuchaza ingaphambili lekilasi) - Uthisha ucela abafundi ukuba bame ecaleni elilodwa lekilasi/ kwelinye icala lekilasi - Uthisha ucela abafundi ukuba bame ngaphambi kwekilasi.		Usuku olu-1
	izinto eziphathekayo usebenzisa izinto ezinhlangothintathu 3-D **Umsindo unencazelo.** - Abafundi balalela**:** - insimbi. - Impempe . - Izinsimbi zomculo. - Shayanisa amabhuloki amabili kwenye	Insimbi ekhalayo Impempe Nanoma yikuphi okushaywayo uma kuculwa Amabhuloki amabili okhuni	

Isonto 38	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
3.1 **Isikhundla, isimo nokubukeka kwento**	Abafundi bavala amehlo basho umsindo wensimbi,noma impempe noma izinsimbi zomculo. - Abafundi bavala amehlo bese besho ukuthi umsindo uphumaphi.Baqale baphonse isikhwama sikabhontshisi ngalapho kuvela khona umsindo bese besho ukuthi umsindo wani lowo isib. Ngaphambi kwekilasi,maduze nekhona lezincwadi njll - Uthisha utshela abafundi aba-4 ukuba bame ezidongeni zekilasi.Abafundi aba-4 emacaleni omane ekilasi ,ngamunye aphathe ithulusi(insimbi, impempe, insimbi yomculo namabhuloki amabili) - Uthisha utshengisa ngesandla sakhe kumfundi ngamunye ukuthi enze umsindo ngethulusi lakhe isib.insimbi kuphela. - Abanye abafundi batshengisa ngalapho kuqhamuka khona umsindo ngokukhomba khona,isib. Insimbi.. - Ukugcizelela ulwazi lokwesokunxele nesokudla,thumela labo bafundi ababili ebebemi ngaphambili nangemumva nekilasi baphindele kwabanye ekilasini. - Phinda wenze lomsebenzi ugxilise emsindweni ophuma ngakumacala esokudla nesokunxele lekilasi. - Abafundi basho “esokunxele”uma umsindo uphuma esandleni sokunxele “esokudla” uma umsindo uqhamuka ngasesandleni sokudla.		
	Ukusebenzisa izinto eziphathekayo ezi- 3-D Abafundi basebenzisa amabhuloki isib.Susa ibhuloki ulise esitulweni Lise mumva/liphambili. Ima ngakwesokudla kwesitulo/ima ngakwesokunxele kwestulo. Ima phakathi nezitulo. Hlela izicathulo ngesokunxele nesokudla	 Ibhuloki nesitulo izicathulo	
	Sebenzisa izimo noma izithombe eziphathekayo ezi- 2-D Yenza abafundi baqedele leliphepha lokubhalela usebenzisa amakhilayoni ukudweba umugqa phakathi kwemigqa.isib. 	Iphepha lokubhalela nekhilayoni	

Isonto 38	**Isikhathi esinconyiwe sokufunda:** **Umsebenzi kathisha wekilasi olongiselelwe (iringi) okungenani imizuzu enga 30 ngosukungenani umsebenzi wezibalo o 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**Izinsiza kufunda ezinconyiwe**	**Isikhathi esibekiwe**
4.2 **Ubude**	**Qhathanisa uhlele izinto eziphathekayo usebenzisa amagama afaneleyo ukuchaza ubude** • **Ukukala ubude babafundi ngetheyiphu** **Ukunyakazisa umzimba** - Ukubheka kumathemu okuqala neyesithathu lapho ubude babafundi bakalwa khona kusetshenziswa izandla eshadini lobude. - Akuphindwe kukalwe abafundi. - Uthisha ubeka itheyiphu yokukala eduze nezithombe zezandla eshadini lobude - Ubude babafundi buyakalwa futhi - Yenza abafundi bazi ukuthi kusetshenziswa isikali esilinganisiwe okuyilesi esisetshenziswa ngomama uma bethunga izingubo.. - Njengamanje akusizo izandla ezi-10 kodwa imitha elilodwa 10 amasentimitha ubude. - Abafundi sebengaqhathanisa ubude babo.Ubani omude kakhulu/nomfishane kakhulu ekilasini? **Sebenzisa izinto eziphathekayo ezinhlangothi-3-D** - Umfundi ulala phans, abanye babeka amabhuloki (alingana ngobungako) belandela umzimba womfundi olele. - Uthisha ubanika umyalelo “Yenzani lokho okudana/nokufishanyana kunomgani wakho”	hadi lokulinganisa ubudeitheyiphu yokukala  	

Isonto 39	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**ISIHLOKO**	**Amanothi Acacisayo**
1.1 **Bala izinto**	• **Gcizelela ukuqonda inombolo-10** **Ukukhuluma:** ukubala izinto uze ufike e-10 nsukuzonke. Ukubala uya phambili nokubala uye emumva ufike ku-10. Ukubala okusakuhuba-0-10 **Gcizelela ukubala ngokwesikhundla;** Uthisha upakisha izinto ezi-6 emgqeni Ukhombainto eyodwa ngesikhathi bebala *owokuqala,owesbili, owesithathu, owesine oweshlanu…*		**Usuku olu-1**
	Gcizelela ulwazi “okuningi” no “okumbalwa”. Shaya ihlombe izikhathi eziningi …….IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya ihlombe ka -10. Buza umbuzo ukuthi ihlombe likhale ka”ningi/kambalwa	Isakana lokudlala nobhasikidi	
	Ukusebenzisa umzimba Yenza abafundi ba; - Yisho umlolozelo wezinombolo usebenzisa iminwe emihlanu. - Balaizikhawu lapho uthisha eshaya phezu kwetafula bese bekopisha uthisha - Shaya ihlombe izikhathi ezi-10 - Bala ngaso lesosikhathi ulandela isigqi esithile lapho abafundi behla ngezitebhisi,bagxuma ngonyawo olulodwa ungena uphuma ngesondo.. - Shaya ngonyawo ulandela isigqi esithile. - Abafundi abalishumi bami indilinga nobhasikidi phakathi nendawo baphethe isakana likudlala.abafundi mabaphonse isakana lokudlala kubhasikidi bazoqhubeka bephonsa baze bafike e-10. Abafundi ababale bephimisela ngesikhathi bephonsa.Phinda lomsebenzi baze baphonse bonke abafundi.		

Isonto 39	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**ISIHLOKO**	**Amanothi Acacisayo**
1.1 **Bala izinto**	**Ukusebenzisa izimo nezithombe konhlangothi mbili-2-D** Ukuhlukanisa ikilasingamaqembu . - Uthisha unika abafundi amaphazili ezinombolo. - Abafundi bathola baphenye zonke izinto ezinokwenzeka. - Abafundi bajika idayisi okulona elizosinika ukuthi yiyiphi iphazili yezinombolo azokwakha ngayo. 	Ukwenza amaphazil afaka izinombolo kusuka koku-1 kufike e-10	

Isonto 39	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**ISIHLOKO**	**Amanothi Acacisayo**
1.13 **Ukhlanganisa nokususa**	• **Gcizelela ukuhlanganisa nokususa nemiphumela kufika-10** **Ukukhuluma:** ukubala izinto ufike e-10. Ukubala uya phambili nokubala uhlehla ufike ku-10 **Gcizelela ukubala ngakubili usebenzisa umlolozelo wezinombolo**. **Ukugxilisa ulwazi "lokuningi "no"kumbalwa"** Shaya ihlombe izikhathi eziningi ….IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya izandla kube ka-10 Buza umbuzo ukuthi yiliphi ihlombe elikhale kaningi /kancane **Ukusebenzisa umzimba** - Uthisha ubiza abafundi aba-5 ngaphambili bese elokhu ebiza ngamunye umfundi kuze kufike ku-10. - Abafundi babala bephimisa. 5 no 1→6. (yisho:okuhlanu nokukodwa kwenza isithupha) 6 no 1→7. 7 no 1→8. 8 no 1 →9. 9 no 1→10. - Uthisha uphindisela abafundi bohlala phansi bebala behlehla.. 10 susa 1→9 9 susa 1→8 10 susa 2→8	Amaculo nemilolozelo yezinombolo	Usuku olu -1
	Ukusebenzisa izinto eziphathekayo ezinhlangothi ntathu-3-D Abafundi bahlala phansi.Umfundi ngamunye uthola-10 izinto zokubala nesivalo seplastiki. Yenza abafundi balandele imiyalo: - Pakisha-4 izinto zokubala esivalweni. Yengeza -4. Sekungaki sekukonke? 6 no 4→ 10 - Pakisha -10 izinto zokubala.susa oku-5.Kungaki okusele?	Umfundi ngamunye uthola-10izinto zokubala Izivalo zamaplastiki isib. Isivalo sesitsha se-ayisikhilimu	

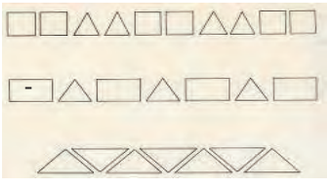
Isonto 39	ISIKHATHI ESINCONYIWE SOKUFUNDA: Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)		
ISIHLOKO	**Amanothi Acacisayo**	**ISIHLOKO**	**Amanothi Acacisayo**
1.13 **Ukhlanganisa nokususa**	**Ukusebenzisaizimo noma izithombe ezinhlangothi mbili 2-D** - Bala izinto ezingu-8ekhadini lesithombe.uma wengeza ezinye izinto 2-ekhadini lezithombe, sezingaki izinto manje? - 8 no 2 →10. Pakisha inani lezinto zokubala lifane nenombolo - Bala izinto ezi-10 ekhadini lezithombe.Uma umboza izinto-3 zingaki ozibonayo? 10 susa 3→ 7. Pakisha inani lezinto zokubala lifane nenombolo.	Amaflashikhadi ezithombe afaka izinombolo 1-10 Izinto zokubala	
1.4 **Chaza, qhathanisa bese uhlea izinombolo**	• **Qhathanisa amaqoqo amabili owanikiwe** - **Kuningi kune…** - **Kuncane kune…(kumbalwa)** - **Kuyalingana (kuyafana)** **Ukukhuluma:** Ukubala ngezinto ufike ku-10 nsukuzonke Ukubala uya phambili nokubala uy mumva ufike ku-10 Ukubala usebenzisa umlolozelo namaculo ezinombolo Gcizelela ukubala ngakubiliusebenzisa umlolozelo wezinombolo **Gcizelela ulwazi “lokuningi “no”kumbalwa”** Shaya ihlombe izikhathi eziningi ….IMA Shaya ihlombe izikhathi ezimbalwa. Uthisha ushaya izandla kuze kube ka-10 Buza umbuzo ukuthi ihlombe elikhale kaningi /mncane **Ukusebenzisa umzimba** - Uthisha ubeka abafundi abayi-6 phakathi nehubhu waphinda wafaka abanye abangu-4 kwenye ihubhu. - Uthisha “uyabuza”ingabe baningi abafundi,bambalwa noma inani elilinganayo kuyihubhu ngayinye. - Abafundi bakhomba ukuthi yiyiphi ihubhu “elinokuningi kune” ne”nokuncane kune” nelinokulinganyo” inani labafundi”	2 amahuphu	Usuku olu-1

Isonto 39	ISIKHATHI ESINCONYIWE SOKUFUNDA: Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)		
ISIHLOKO	**Amanothi Acacisayo**	**ISIHLOKO**	**Amanothi Acacisayo**
1.4 **Chaza, qhathanisa bese uhlea izinombolo**	**Ukusebenzisa izinto ezinhlangothi ntathu 3-D** - Ukubeka izinto zokubala ezi-10, ezi-6 nezi-4 phezu kwetafula. - Ngaphandle kokubala qagela inombolo yalezizinto zokubala/amabhuloki asetafuleni. - Uthisha uyabuza"Ingabe izinto zokubala zingaphezu kwezi-7?Ingabe ziyalingana,zingaphezu kwe..,zingaphansi kune…,zimbalwa kune..,zanele,azenele - Uthisha uyabuza "bhekani izimpendulo zenu ngokubala ngezinto zokubala.Kusondele kangakanani ukuqagela kwakho?	izinto zokubala	
	Ukusebenzisa izimo nezithombe konhlangothi mbili - Uthisha utshengisa amakhadi amabili anamachashazi amanani angafani nezithombe kuwo. - Yenza abafundi basebenzise ulwazi lokuqhathanise amakhadi anezithombe namachashazi akuwo bese bekhomba "okuningi kuno…"" kuncane kuno.." "kuyalingana"	Amakhadi amabili anamachashazi nezithombe	

Isonto 39	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**ISIHLOKO**	**Amanothi Acacisayo**
3.1 **Isikhundla, isimo nokubukeka kwento**	**Chaza ubudlelwano bezinto ezinhlangothi ntathu ezi 3-D ezimbili noma ngaphezulu nobudlelwano bazo** • **Gcizelela esokunxele nesokudla** **Ukusebenzisa umzimba** - Uthisha ubeka izinyawo kwesokunxele nakwesokudla ikilasi lonke.  - Abafundi bayagaqa ngezandla nangamadolo bekunyakazisa kanye kanye. - Bayahamba phezu kwawo endleleni beyogeza izandla.  Uthisha ubopha isinqamu sewuli esandleni sangakwesokudla somfundi. Uthisha ubanika imiyalo. - Phakamisa umlenze wangakwesonxele. - Beka unyawo lwangakwesokudla phezu kwesitulo - Thinta idolo langakwesokunxele ngendololwane yangakwesokudla. - Donsa indlebe yangakwesokunxele ngesandla sokudla - Beka isandla sokudla ehlombeni langakwesokunxele nesandla sokunxele phezu kwehlombe langakwesokudla kwenze kanyekanye. - Zinkonkoshele (Phambanisa izingalo phezu kwesifuba).	Iphepha lezinyawo limakwe “esokunxele nakwesokudla” Isinqamu sewuli ebomvu	Usuku olu -1

<table>
<tr><th>Isonto 39</th><th colspan="3">ISIKHATHI ESINCONYIWE SOKUFUNDA:
Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)</th></tr>
<tr><th>ISIHLOKO</th><th>Amanothi Acacisayo</th><th>ISIHLOKO</th><th>Amanothi Acacisayo</th></tr>
<tr><td>3.1
Isikhundla, isimo nokubukeka kwento</td><td>Ukusebenzisa izinto ezinhlangothi ntathu 3-D
- Uthisha ubeka amathini ayi-7 etafuleni.
- Yenza abafundi basho ukuthi yiyiphi inombolo engakwesokunxele kunombolo-3,yiyiphi inombolo engakwesokudla kwenombolo-6.yiyiphi inombolo ephakathi kuka-3 no-6.
- Yiyiphi inombolo yokuqala neyokugcina.


- Uthisha ubeka onodoli/nezimoto ezi-3 okulula ukuhlukanisekangokwezingubo nemibala phezu kwetafula.
- Uthisha ubuza imibuzo njenga;
o Yimuphi unodoli/imoto engakwesokunxele?
o Yimuphi unodoli/imoto engakwesokudla?
o Yimuphi unodoli/imoto ephakathi nendawo?
Ukusebenzisa izimo noma izithombe ezinhlangothi mbili2-D
- Ngesikhathi soBuciko obubonakalayo abafundi benza imidwebo besebenzisa izandla sokunxele nesokudla.
- Sika unamathisele ephepheni elitshengisa unyawo lwesonxele nelokudla.</td><td>Amathini anezinombolo.

Onodoli noma izimoto</td><td></td></tr>
<tr><td>2.1
Amaphethini okusazibalo mdwebo</td><td>• Ukwenza amaphethini abo
Ukusebenzisa izinto ezinhlangothi ntathu 3-D
- Abafundi bayaqala ukukopisha amaphethini kulawo abawanikiwe.
- Ekugcineni abafundi bazozakhela amaphethini abo bese bewachaza.
</td><td>Izimo namakhadi amaphethini.</td><td>Usuku olu -1</td></tr>
</table>

Isonto 39	**ISIKHATHI ESINCONYIWE SOKUFUNDA:** **Umsebenzi kathisha olungiselelwe uthatha imizuzu okungenani (iringi) ± 30 ngosuku (okungenani ka-± 5 ngesonto)**		
ISIHLOKO	**Amanothi Acacisayo**	**ISIHLOKO**	**Amanothi Acacisayo**
2.1 **Amaphethini okusazibalo mdwebo**	**Umsebenzi webhodi lamaphekisi:** Yenza abafundi basebenzise kuqala isandla sokudla bese kulandela esokunxele, bazosebenzisa izandla zombili ukubeka amaphekisi ebhodini lamaphekisi. - Uthisha utshela abafundi ukuthi abekwa kuphi amaphekisi isib. o Emgqeni *ophezulu.* o Emgqeni *ophansi.* o Ohlangothini langa*kwesokunxele*. o Ohlangothini langa*kwesokudla*. o *Phakathi* nendawo. Yenza abafundi ba: - Benza izimo phezu kwebhodi lamaphekisi ngamaphekisi anemibala. - Uthisha uzakhela iphethini elula ngamaphekisi bese abafundi beyikopisha lephethini emabhodini abo.	Ibhodi lamaphekisi namaphekisi. Amaphethini azokopishwa abafundi.	

Isonto 40	Ukusebenzisa isontolama-40 ukubhekelela ulwazi olusele nezindawo zokufunda ezinenkinga.	
Ingxenye yokuqukethwe	Isihloko	Amazinga okuhlola
Izinombolo, izimpawu kanye nobudlelwane bazo	1.1 Ukubala izinto	Ukuqagela bese ubala ngokuphimisa uze ufike ku-10 (amaculo nemilolozelo yezinombolo nokuthuthukisa ulwazi lwezimombolo)
		Ukubala uya phambili nokubala uhlehle (0-10)
		Ukubala ngakubili (amaculo nemilolozelo yezinombolo)
		Ukuqonda ulwazi “lokuningi no“okuncane” (ukushaya ihlombe)
		Ukuqonda ukuthi ulishaye kangaki ihlombe kaningi/kancane,kaningi ngokuthe xaxa, kancane kakhulu
		Ukukhomba amakhadi ezithombe zezinombolo namachashazi kusuka-0-10
		Ukwazi izimpawu zezinombolo 8, 9, 10 no 0
		Ukubona amagama ezinombolo isishiyagalombili,isishiyagalolunye, neshumi no kungekho
		Ukuqedela ukulandelana okulula kwezinombolo kusuka 1-10
	1.4 Ulwazi lwezinombolo	Ukubona nokukhomba izinombolo esimweni esejwayelekile isib, ubudala, irejista
		Ukuhlukanisa phakathi kokuningi,okuncane,okulingene,okuningi ngokuthi xaxa,nokuncane kakhulu,uze ufike ku-10
		Ukuqonda isikhundla sezinombolo– owokuqala, owesibili, owesithathu,owesine,owesihlanu,owesithupha
	1.6 Amaqhinga okuxazulula izinkinga	Ukusebenzisa izinto eziphathekayo Ukuchaza ngamagama imicabango yakhe ngokudweba noma ukusebenzisa izinto eziphathekayo
	1.7/1.13 ukuhlanganisa nokususa	Uku xazulula izinkinga zokuhlanganisa nezokususa ngokukhuluma ufake izinombolo ezifinyelela e-10
Amaphethini nokuxhumana	2.1 Amaphethini okusazibalomdwebo	Ukukopisha,wandise bese wakha awakho amaphethini alalelwayo
		Ukuqonda umdlalo wesikotshi/ugxa
Isikhundla nesimo (ijiyometri)	3..1 Isikhundla, isimo nokubukeka kwento	Ukwazi ngolwazi lokuseceleni, phakathi, kwesokudla, kwesokunxele njll,
		Ukuqonda ulwazi lokuyaphambili nokuhlehla, phezulu naphansi, ukuya phezulu nokuya phansi, kwesokunxele nakwesokudla
	3.2 izinto ezi 3-D kanye no 3.3 izimo ezi 2-D	Bakwazi ukwakha iphazili enezingxenye okungenani ezi- 24 izingxenye
		Ukubona nokukhomba indilinga, unxantathu isikwele nonxande
	3.4 ukuhlukana kufane nse nxazombili	Ukubona umugqa ohlukanisa phakathi izinxenye ezimbili zifane nse ezintweni
Isilinganiso	4.2 Ubude	Ukuqonda ukuthi nezinto ziyalinganiswa usebenzisa ithephu yokulinganisa
Ukuqokelelwa kolwazi	5.1 Ukuqoqa nokuhlela izinto	Ukwazi ukuqoqa, ukuhlela, ukudweba, ukufunda nokubeka okumele ulwaz (ukuhlaziya)izinto ngokweshloko esisodwa.
	5.3 ukuxoxa nokuthula umbiko ngezinto eziqoqwe zahlelwa	

INGXENYE YE – 4: UKUHLOLA

4.1 ISINGENISO

Umsebenzi wokuhlola uwuhlelo oluhleliwe oluqhubekayo lokukhomba, ukuqoqa, kanye nokuhumusha ulwazi ngokusebenza kwabafundi, usebenzisa izindlela ezahlukene okubandakanya izinhlobonhlobo zokuhlola. inezinyathelo ezine:

- ukulungiselela nokuqoqa ubufakazi bomphumela,
- ukuhlolwa kobufakazi,
- ukubhala okutholiwe kanye
- Nokusebenzisa lolulwazi ukuqonda okusiza ekuthuthukiseni abafundi ukuze benze kangcono ohlelweni lokufunda nokufundisa.

Ukuhlola kufanele kubengezindlela ezimbili ngokuhleliwe (kuhlolwa ukufunda) kanye nokungahleliwe (kuhlolwa ukufunda).kuko kokubili kufanele abafundi baziswe ngokutholiwe ukwandisa ulwazi lokufunda izibalo.

KumaBanga aphansi amaqhinga asemqoka okuhlola ngokuhlelekile kanye nokungahlelekile ukuhlola ngokubhekwa kwabafundi nguthisha, izingxoxo, isimo ngokwenza kanye nokubhaliwe.

EBangeni R ukuhlolwa kufanele kube ngezingxoxo kanye nokubonisa ngokwenza.

4.2 UHLOLA NGONGAKUHLELEKILE /UKUHLOLA KWANSUKUZONKE

Ukuhlolwa kokufunda kuwuhlelo oluqhubekayo lokuqoqa ulwazi ngokuphumelela komfundi.Ukuqhapha inqubekelaphambili yabafundi nsukuzonke kungukuhlola okungahlelekile, lokhu kwenzeka ngokubhekwa kwabafundi nguthisha, izingxoxo, isimo ngokwenza kanye nokuxhumana okungahlelekile kwasekilasini lokhu akufanele kubonwe njengohlelo olwahlukile emisebenzini efundwayo ekilasini. Ukuhlola okungahlelekile kwenza uthisha akwazi ukuqapha inqubekelaphambili yabafundi kanye nezinhlelo zokufundisa zosuku.Ukuhlola okungahlelekile kusetshenziswa:

- ukwaziswa kwabafundi ngokutholiwe
- ukukwazi ukuhlelela ukufundisa

Ngezinye inkathi uthisha angagcina uhla lokubheka abafundi (checklist) azobhala kulo akuthola ngesikhathi ehlola inqubekelaphambili yabafundi, uthisha nabafundi Bangamaka umsebenzi owenziwe.ukuhlola okungahleliwe akuyona ingxenye yokuhlola okuhleliwe.imiphumela yokuhlola okungahlekile okwenziwa nsukuzonke akusetshenziselwa ukuphumelela komfundi.

4.3 UKUHLOLA OKUHLELEKILE

Yonke imisebenzi yokuhlola kuhlelo lonyaka ithathwa njengokuhlola okuhlelekile.umsebenzi wokuhlola ohlelekile umakwa uphinde ubhalwe ngokuhlelekile nguthisha.lusetshenziselwa ukuphumelela nokudluliselwa kwabafundi eBangeni elilandelayo.

Ukuhlola okuhlelekile kunika othisha ulwazi oluzokwenza akwazi ukubona inqubekelaphambili yabafundi ebangeni kanye nasesifundweni.

Uthisha angabheka abafundi abayishumi ngesikhathi ngakho ke umsebenzi wokuhlola okuhlelekile ungenziwa ngamaqoqo amancane, kungathatha izinsuku ezimbalwa ukuhlola ikilasi lonke.zonke izinto zokusebenza eziphathekayo kufanele zibekhona njengokujwayelikele, (izinto zokubala eziphathekayo,ishadi lezinombolo njll.)

Ukuhlola okusetshenziswayo kufanele kuhambisane neminyaka kanye nokukhula komfundi.

Ukuhlola kufanele kubhekelele ukukhula kwamazinga okucaBanga namakhono abafundi.ukwakhiwa kwalomsebenzi wokuhlola kufanele kufake ulwazi olufundiwe ngezindlela ezahlukene.

Izinhlobo ezahlukene zokuhlola (ukubhekwa kwabafundi, izingxoxo, okwenziwayo kanye nokubhalwayo) kufanele inike umfundi ithuba lokukhombisa angakwazi ukukwenza, abanye abafundi bakhombisa ukwazi ngezindlela ezahlukene.Isib.

- abanye abafundi abakuthola kulukhuni ukufunda bayazazi izibalo
- Abanye abafundi Bangaba ngaphansi kwezinga elilindelekile lokukhula ngolimi lokufunda nokufundisa.

Umsebenzi wokuhlowa awube izibalo ezingancikile olimini nasekufundeni.

Uthisha makaqonde ukuthi yini okuhlolwayo .ulwazi lwezibalo namakhono angahlolwa ngezindlela ezahlukene. izinhlobo ezahlukene zokuhlola zilungele ulwazi namakhono kwizihloko ezahlukene ngokweminyaka ehlukene yabafundi.kuyasiza ukusebenzisa uhlu lokubheka ukusebenza kwabafundi ukubona ukukhula kwabo olwazini lwezibalo emaBangeni aphansi.iRubric ingasetshenziswa ukuhlola amakhono abafundi ekuxazululeni izinkinga zezibalo.

4.4 UHLELO LOKUHLOLA UKUHLOLA OKUHLELEKILE

Ukuhlola okuhlelekile kwezibalo kufaka ngaphezu kwesihloko esisodwa ezibalweni;kufanele onyakeni kufanele ufake lonke ulwazi lwezibalo nezihloko,akuyikho konke okufakiwe kuhlelo lwezifundo okuhlolwa ngokuhlelekile noma kubhalwe ngokuhlelekile.Izonombolo ukusebenza nobudlelwano kuthatha ama-60% wezibalo emaBangeni 1-3. ama-60% ukuhlolwa okuhlelekile kwiThemu ngayinye kunyaka wonke kufanele ugxile kwi-zinombolo ukusebenza nobudlelwano.

Ingxenye ngayinye yokuhlola okuhlelekile ayizimeli emsebenzini ohlolwayo.ezinye izingxenye zihlolwa kanyekanye kanti ezinye zingahlolwa ngezikhathi ezihlukene Isib. amakhono okubala ngokweqa izinombolo angenziwa kanye nokunye kulomsebenzi:

- Ukuqedelela ukubala ngokulandelana
- Ukufunda nokubhala izimpawu zezinombol
- ukubala

Ukuhlola okuhlelekile okunezibalo zokuxazulula izinkinga ngokwenza amaqoqo noma ngokwabelana nokuhlola ukukwazi ukukala umthamo kungenziwa ngezikhathi ezihlukene.

4.5 UKUBHALA NOKUBIKA NGOKUSEBENZA KWABAFUNDI

Ukubhala ngokusebenza kwabafundi kuyindlela uthisha agcina ngayo ulwazi lwezinga umfundi akulo kulowo msebenzi ohleliwe.lolulwazi luveza ulwazi lokusebenza komfundi ukufika ezingeni olubekwe kwi CAPS .ulwazi ngokusebenza komfundi malunike ubufakazi bokukhula komfundi kuleloBanga akulo nokuholela ekudluleleni eBangeni elilandelayo ulwazi olubhalwe ngokusebenza komfundi lungasiza ukuveza inqubekelaphambili ekufundeni nasekufundiseni.

Ukubika ngokusebenza komfundi kuwuhlelo olwazisa abafundi, abazali, isikole nabaxhasi ngenqubekelaphambili yokusebenza kwabafundi, lokhu kungabikwa ngezindlela ezahlukene ezingafaka irephothi lokusebenza komfundi,imihlangano yabazali,njll.othisha kumaBanga onke parephotha ngamaphesenti kuzozonke izifundo. Ithebula elingezansi libonisa ubungako bamaphesenti ,amazinga kanye nezincazelo zawo:

Amazinga namaphesenti abhalwayo ukubika ukusebenza komfundi

UPHAWU LOKULINGANISA	INCAZELOYOKUQHUBA KOMFUNDI	IPHESENTI
7	Umphumela ovelele	80 – 100
6	Umphumela oncomekayo	70 – 79
5	Umphumela osezingeni elanelisayo	60 – 69
4	Umphumela ogculisayo	50 – 59
3	Umphumela olingene	40 – 49
2	Umphumela ongagculisi	30 – 39
1	Umphumela ongalungile	0 - 29

4.6 JIKELELE

Losomqulu mawufundwe uhlanganiswe nalokhu okulandelayo:

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

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

4.7 IZIBONELO ZOHLA LOKUBHEKA UKUHLOLWA OKUHLELIWE KWEBANGA R

Izibonelo zohla lokuhlola ezinikeziwe ngezansi zeBanga R. Inhloso ukusiza othisha ukuhlelela nokusebenzisa ukuhlola okuhleliwe ngendlela eqhubekayo.

IBanga R **Uhla lokubheka ukuhlolwa kukaThemu 1**				
Ingxenye yokuqukethwe	**Ulwazi**	**Izinto ezibhekwayo**	**√ noma x**	**Umbiko**
Izinombolo, izimpawu nobudlelwano bazo	ukubala	Qagela bese kubalwa sakuhuba kufinyelele koku-5 (amaculo ezinombolo nemilolozelo kufakwe ekuthuthukisweni kolwazi lwezinombolo)		
	Ukubona izinombolo	Ukbona izinombolo esimweni esejwayelekile isib. Irejista		
		Ukuqonda izinombolo ezisho isikhundla (isib. Ngesikhathi sokuya endlini yangasese)		
	Umqondo wezinombolo	Ukuqonda okukodwa -nokukodwa –okuhambisanayo (ishadi labasizi ngesikhathi sezidlo ezilula)		
	Ukukhomba uchaze izinombolo eziphelele	Ukubona izithombe zezinombolo namakhadi amachashazi afaka inombolo ukunye		
		Ukwazi uphawu lenombolo 1		
		Ukubona igama lenombolo kunye		
	Ukuxazulula izinkinga	Ukusebenza kwezinto eziphathekayo Ukuchaza imicabango ngamagama nangezithombe noma izinto eziphathekayo		
Amaphethini nokuxhumana	Kopisha, wandise bese wakha amaphethini angawakho	Ukubona amaphethini kokusizungezile		
		Ukukopisha , ukwandisa ,nokwakha amaphethini angawakho		

IBanga R Uhla lokubheka ukuhlolwa kukaThemu 1				
Ingxenye yokuqukethwe	**Ulwazi**	**Izinto ezibhekwayo**	**√ noma x**	**Umbiko**
Isikhundla nesimo (ijiyometri)	Ukubona , ukukhomba nokusho izinto ezi-3-D	Ukubona , ukukhomba nokusho amabhola		
		Ukubona, ukukhomba nokusho amabhokisi		
	Ukubona, ukukhomba nokusho izimo/ nezithombe ezi 2-D	Ukubona, ukukhomba nokusho izimpawu ezingezakho , izimpawu zaBangani nezabafundi afunda nabo		
		Ukwakha okungenani iphazile yezingcezu ezi-6		
		Ukukhombisa ukukwazi ukuhlukanisa phakathi kwezinto “ezisobala nezizungezile esithombeni”		
	Izimo IJIYOMETRI	Ukukhomba nokubona indilinga		
		Ukukhomba nokubona unxantathu		
		Ukukhombanokubona isikwele		
	Chaza, uhlele bese uqhathanisa izinto ezi 3-D ngokwe:	Qhathanisa ikuphi ezintweni ezimbili eziqoqelwe ndawonye ezinkudlwana, ezincanyana, ezinkulu kakhulu, nezincane kakhulu		
		Hlela izinto ngo: Bungako - okukhulu no kuncane,		
		Umbala – imibala eyisisekelo (obomvu, ophuzi, noluhlaza okwesibhakabhaka)		
		Izimo – indilinga, unxantathu, nesikwele		
		Izinto ezigingqikayo		
		Izinto ezishibilikayo		
	Ukubona umugqa ohlukanisa izinhlangotho ezibili zilingane futhi zifane nse ngo:	Ukubona umugqa ohlukanisa izinhlangothi kabili kufane nse kuwena		
	Ubudlelwane besikhundla: Isikhundla sezinto ezimbili noma ngaphezulu ngokuxhumana nomfundi	Ukwazi ngaphambili/ngemumva		
		Ukwazi ngaphezu kwe, phezulu, ngaphansi, ngezansi		
		Ukwazi ngaphakathi, ngaphandle		
		Ukwazi phezulu, phansi		
	Inkomba	Ukuqonda ulwazi: ukuya phambili, ukuya emumva, phambili, emumva		
Isilinganiso	Isikhathi	Ukusebenzisa amagama anjenge usuku, ubusuku,ukukhanya, nobumnyama,ntambama, ukuchaza izikhathi zosuku		
		Ukuhlela izehlakalo eziqhubekayo empilweni yansukuzonke (uhlaka lwansukuzonke)		
		Ukukhombisa ukuqaphela izinsuku zesonto, izikhathi zonyaka, nesimo sezulu		
		Ukwazi usuku lokuzalwal lwakho		
	Ubude	Ukuhlukanisa phakathi kokude, ukujana, okude kakhulu, okufishane, okufishanyana, okufishane kakhulu (ishadi lokulinganisa ubude)		
Ukuqokelelwa kolwazi	Qoqa, uhlele, udwebe, ufunde ukhombise ulwazi	Ukukwazi ukuqoqa, ukuhlela, ukudweba,ukufunda nokuveza (ukuhumusha) izinto ngendlela eyodwa ezakheke ngayo		

AMAPHUZU OKUGCINA:

IBANGA R UHLA LOKUBHEKA UKUHLOLWA KUKATHEMU 2				
Ulwazi Lwezinombolo	**Ulwazi**	**Izinqumo**	**√ noma x**	**Uku-phawula**
Izinombolo, izimpawu nobudlelwano bazo	Ukubala	Qagela, ubale sakuhuba kuyofika ku 7 (cula, isho imilolozelo)		
		Bala uya phambili ubuye uhlehle (1 – 4)		
		Ukwazi ulwazi lwamagama njenga okuningi / okungconywana.		
	Ukubona Izinombolo	Ukubona izinombolo ezimweni ezejwayelekile njenge nombolo yendlu, ikheli.		
	Ukubona bese Uchaza Izinombolo eziphelele	Khomba, izithombe zezinombolo namakhadi amachashaza		
		Ukwazi izimpawu zezinombolo 1, 2, 3 ,4		
		Bona amagama ezinombolo		
	Ulwazi Lwezinombolo	Uyakwazi ukbeka okunye nokunye ngokuqondana		
		Hlukanisa phakathi kokuningi, okuncane okuyingcosana		
		Ukubona umehluko kwimali ewuhlweza		
	Ukuxazulula Izinkinga Zezinombolo	Sebenzisa izinto eziphathekayo Chaza ngamagama noma ngemidwebo		
		Xazulula izinkinga zezibalo ngokukhuluma ezokuhlanganisa nokususa kufika kunombolo 4.		
Amaphethini nokuxhumana	Ukukopela, uqhube, wakhe amaphethini	Kopela, qhuba bese wakha amaphethini usebsnzisa izinto, izimo nemali.		
Isikhundla nesimo (ijiyometri)	Ukubona, ukhombe, bes unika igama lezimo ezinhlangothimbili	Akha iphazili elinezingcezu eziyi 12		
		Khombisa ikhono lokuhlukanisa phakathi kwezinto eziphambili nezingemuva esithombeni.		
	Izimo ezibalombhalo	Bona, khomba bese usho igama likanxantathu		
		Ubona umumo kanxantathu		
	Ukuchaza, uhlele bese uqhathanisa izinto ezinhlan-gothintathu:	Qhathanisa amaqoqo ezinto amabili usho ukuthi yiziphi ezinde noma ezimfushane		
		Hlela izinto ngezimo - yinde/imfushane		
		imibala		
		izimo		
	Akha izimo ezinh-langothintathu	Sebenzisa amabhuloki		
	Bona umugqa ohlukanisa kabili kulingane kufane	Bona umugqa ohlukanisa kabili kulingane futhi kufane ezintweni eziseduze nawe		
		Uyakwazi ukusebenza kwizinhlangothi zombili		
	Ubudlelwano nendawo okuyo	Ukuqonda ubudlelwano phakathi komfundi nezinto ezimbili noma ezintathu		
Isilinganiso	Isikhathi	Uyazi izinsuku zeviki,izikhayhi zonyaka njll – imilolozelo namaculo		
		Uyalwazi usuku lwakhe lokuzalwa (phinda uhlole)		
	Ubude	Uyazi umehluko kokkude nokufushane		
Ukuqokelelwa kolwazi	Qoqa, hlela,dweba,funda bese ubhla izinto ezimela ulwazi	Qoqa ,hlela , dweba, funda beseudweba okumele ulwazi		

ISILINGANISO SOKUGCINA:

IBANGA R UHLA LOKUBHEKA UKUHLOLWA KUKATHEMU 3				
Ulwazi lwezbalo	**Ulwazi**	**Izinqumo**	**√ noma x**	**Phawula**
Izinombolo, izimpawu nobudlelwano bazo	ukubala	Qagela bese ubala sakuhuba ufike ku- 7 (amaculo ezinombolo nemilolozelo) ukuze athuthuise ulwazi lwezinombolo		
		Bala uya emuva naphambili (1-7)		
		Bazi ukuthi ihlombe ulishaye kangaki kakhulu /kancane		
	Ukubona izinombolo	Babona izinombolo esimeni esijwayelekile isib.iminyaka, irejista (uhlole njalo)		
	Thola bese uzichaza izinombolo	Thola izithombe zezinombolo namakhadi anamachashaza ufike ku- 7		
		Yazi izimpawu zezinombolo - 5, 6, 7		
		Bona amagama ezinombolo –kuhlanu, isithupha,isikhombisa		
	Ulwazi lwezinombolo	Hlukanisa phakathi kokuningi,okuyimbijana,nokulinganayo,o kuningi nokumbalwa ufike- 7		
		Bona imibala nezinhlobo zezilwane emalini engamaphepha yase Mzansi.		
	Ukuxazulula izinkinga	Sebenzisa izinto eziphathekayo Chaza ngendlela ocaBanga ngayo ngamagama,nangokudweba noma ngezinto eziphathekayo.		
		Xazulula izinkinga zokuhlanganisa nokususa ngomlomo ufike ku- 7		
Amaphethini nokuxhumana	Kopisha qhuba bese uzakhela awakho amaphethini	Kopisha ,uqhube bese uzakhela awakho amaphethini usebenzisa izithombe		
Isikhundla nesimo (ijiyometri)	Buka uthole bese ubize onhlangothimbili-2-D izimo/ izithombe	Yakha okungenani izingcezu eziyi-18 zephazili		
	Izimo ezisazibalo mdwebo	Bona ,uthole bese usho izimo eziyisikwele.		
		Qonda isimo sezimo ezejwayelekile esezifundiwe kuze kube manje (ukugcina ismo singashintshile)		
	Yakha izinto ezinh-langothintathu 3-D usebenzisa izinto eziphathekayo	Yakha izimo ezintweni nangezibonelo ozinikiwe		
		Kopisha isakhiwoemdwebeni osekhadini		
	Ubudlelwano bendawo	Bona ubudlelwano phakathi kwezinto ezimbili noma eziningi nokuthi zihlobene kanjani Ngaphambili,ngemuva, ngaphezulu, phezulu,phansi,ngapha nsi,ecelelni phakathi kwesokudla kwesokunxele		
		Yenza ngokulandela imiyalo ebhodini lokugaxa		
	Izinkomba	Yazi izindlela ezehlukene ngokulandela ishadi lemicibisholo		
Isilinganiso	Ubude	Qagela bese ukala ubude bezinto ezehlukene		
	Isisindo	Qonda ngalolulwazi okulula,okunzima, kusinda kakhulu kusinda kancane, kulula kancane kulula kakhulu		
	Umthamo	Qonda lolulwazi kugcwele,akukho,kugcwele kuno, kuncane kune”		
Ukuqokelelwa kolwazi	Qoqa uhlele, udwebe, ufunde uyayithula	Bakwazi ukuqoqa bahlele, badwebe, bafunde bese bethula lololwazi ngokulihlaziya ngokwesihloko leso		

ISILINGANISO SOKUGCINA:

IBANGA R UHLA LOKUBHEKA UKUHLOLWA KUKATHEMU 4				
Ulwazi lwezibalo	**Ulwazi**	**Izinqumo**	**√ noma x**	**Uku-phawu-la**
Izinombolo, izimpawu nobudlelwano bazo	Ukubala	Qagela uphinde ubale sakuhuba kufinyelela eziyi-5(amaculo ezinombolo,kanye nemilolozelo ukuthuthukisa ulwazi lwezinombolo)		
		Bala uye emuva kanye naphambili (1-10)		
		Bala ngakubili (imilolozelo kanye namaculo ezinombolo)		
		Ukuqonda amagama afana:nokuningi kanye nokuncane(kushaywa izandla)		
		Ukuqonda izinombolo kushaywa izandla kaningana nakancane kakhulu.		
	Ukubona izinombolo	Ukubona bese ukhomba izinombol ezimweni ezijwayelekile. Isib.iminyaka yabafundi njll.		
	Ulwazi lwezinombolo Khomba bese uchaza izinamba eziphelele	Khomba izithombe zezinombolo kanye namakhadi amachashaza afaka inombolo kusuka ke-0-10		
		Yazi uphawu lwenombolo eyesi-8,9,10 kanye no-0		
		Bona igama lenombolo eyesi-8,9,10 kanye no-0		
		Qedela ukulandelana kwezinombolo ezilula kusuka kweyo-1-10		
	Ulwazi lwezinombolo	Hlukanisa phakathi kokuningi,okuncane,okulinganayo,okuningi kakhulu,nokuncane kakhulu kuyofika kokuyi-10		
		Ukukwazi ukulandelana kwezinombolo ezijwayelekile okoku qala,okwesibili,okwesithathu kuyofika kokuyisithupha.		
	Ukuxazulula izinkinga zezibalo	Sebenzisa izinto eziphathekayo Chaza ukucaBanga kwakho ngamagama nangemidwebo noma ngezinto eziphathekayo		
		Xazulula izinginkinga zokuhlanganisa nokususa ubebenzisa izinombol kufinyelela e-10		
Amaphethini nokuxhumana	Kopela, wandise ubuye wenze awakho amaphethini.	Kopela,wandise wenze amaphethini alalelwayo		
		Ukwazi ukudlala umdlalo (gxa)		
Isikhundla nesimo (ijiyometri)	Bona,ukhombe,usho amagama ezinto ezinhlangothimbili	Ukukwazi ukwenza okungenani ngezingcezu ezingama-24		
	Izimo ezisazibalomdwebo	Ukubona akhombe indilinga,unxantathu,isikwele nonxande.		
	Bona umugqa ohlukanisa kabili kufane nse nhlangothi zombili:	Bona umugqa ohlukanisa phakathi okufana nse nxazombili ezintweni		
	Ubudlelwano phakathi kwezinto	Ukwazi ulwazi lwamagama eduze kwe,phakathi namaphakathi,kwesokunxele kanye nesokudla.		
		Ukukwazi ukwenza umsebenzi oseqophelweni eliphezulu kwibhodi lokugaxa.		
	Izinkomba	Ukwazi ulwazi lwamagama afana ngaphambili,ngemuva ,phezulu naphansi,kwesokunxele kanye nesokudla.		
Isilinganiso	Ubude	Ukuqonda ukuthi izinto ziyakalwa kusetshenziswa ibhande lokukala.		
Ukuqokelelwa kolwazi	Qoqa, hlela, dweba, funda bese ubhala okumele ulwazi oluqo-qiwe	Ukukwazi ukuqoqa, uhle,udwebe,ufunde ,uhlaziye izinto ngokwesakhiwo esisodwa.		

ISILINGANISO SOKUGCINA: