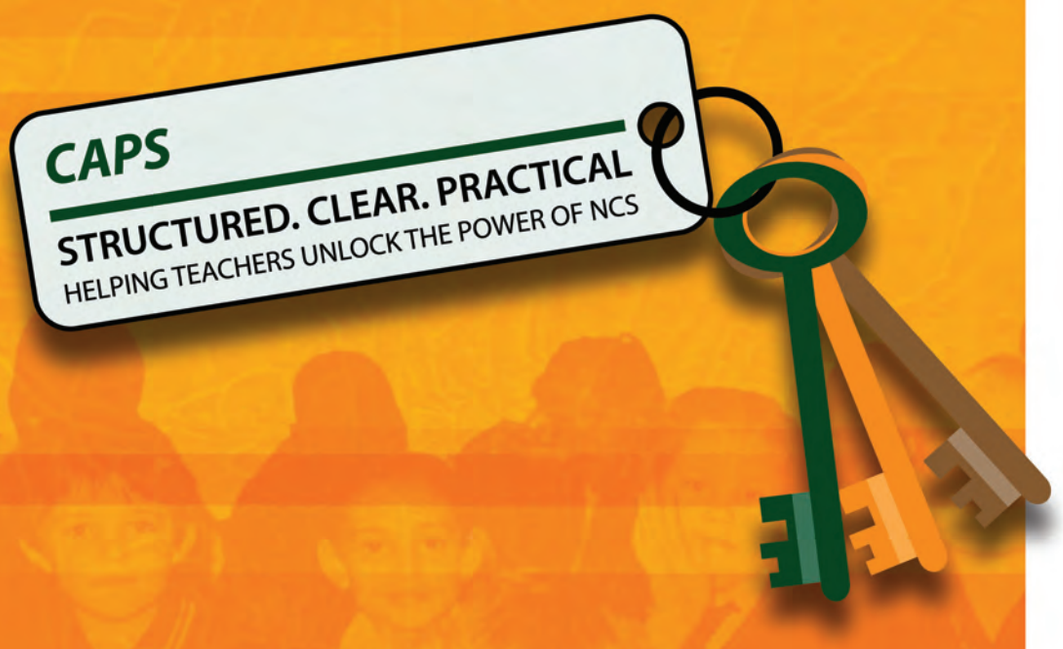
ISINDEBELE MATHEMATICS

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 SOMGOMO WEKHARIKHYULAMU NOKUHLOLA

GREYIDI R

IIMBALO

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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 1: ISINGENISO BEGODU NESENDLALELO

1.1 ISENDLALELO

IsiTatimende seKharikhyulamu yeliZweloke amaGreyidi R-12 *(TKZ)* sendlala umgomo wekharikhyulamu nokuhlola emkhakheni wezokufunda.

Ukuthuthukisa ukusetjenziswa kwawo, isiTatimende seKharikhyulamu yeliZweloke satjhugululwa, amatjhuguluko la azokuthoma ukusetjenziswa ngenyanga kaTjhirhweni ngomnyaka we-2012. Enziwa umtlolo owodwa opheleleko womThetho-kambiso weKharikhyulamu nokuHlola esifundweni ngasinye ukujamiselela iinTatimende zeemFundo, imiHlahlandlela yamaHlelo wokuFunda begodu nemiHlahlandlela yokuHlola iimFundo emaGreyidi ni R-12 .

1.2 UMBONO-MAZOMBE

(a) *IsiTatimende seKharikhyulamu yeliZweloke seGreyidi R-12* (Sango Tjhirhweni we-2012) sijamele Isitatimende somThetho-kambiso wesitatimende sokufunda nokufundisa eenkolweni zeSewula Afrika begodu simumethe okulandelako:

(i) IinTatimende zomThetho-kambiso weKharikhyulamu nokuHlola zaleso naleso sifundo sesikolo esiphasisweko

(ii) Umtlolo womThetho-kambiso, *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R-12 ; begodu no*

(iii) Mtlolo womThetho-kambiso, *iNational Protocol for Assessment Grades R-12 (Tjhirhweni 2012)*

(b) *IsiTatimende seKharikhyulamu yeliZweloke samaGreyidi R*-12 (kaTjhirhweni 2011 sijamiselela iintatimende zekharikhyulamu zelizweloke ezimbili zanje, ezibizwa

(i) *Isitatimende seKarikhyulamu esiBuyekeziweko amaGreyidi R-9, Government Gazette No. 23406 yamhlana ama*-31 Mrhayili 2002, begodu ne-

(ii) *Isitatimende seKarikhyulamu seLizwe Loke amaGreyidi 10-12 Government Gazettes, No. 25545 yamhlana amalanga asi-6 October 2003* and *No. 27594 yangomhla we*-17 kuMrhayili 2005.

(c) Iintatimende zekharikhyulamu yelizweloke eziseengatjaneni b(i) no (ii) ngehla, zimumethe imitlolo yemithetho-kambiso elandelako esuswe beyajanyiselelwa *siTatimende seKharikhyulamu yeliZweloke samaGreyidi* 10-12 *(Tjhirhweni 2012)* ngesikhathi seminyaka we-2012-2014.

(i) IinTatimende zeemFundo, imiHlahlandlela yamaHlelo wokuFundo begodu nemihlahlandlela yokuHlola iimFundo emaGreyidi ni R-9 nemaGreyidi ni 10-12 ;

(ii) Umtlolo womthetho-kambiso, i*National Policy on assessment and qualifications for schools in the General Education and Training Band*, egadangiswe ku*Government Notice No. 124* ku *Government Gazette No. 29626* yamhlana amalanga ali- 12 kuMhlolanja 2007;

(iii) Umtlolo womthetho-kambiso, i*National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF)*, egadangiswe ku*Government Gazette No.27819* yamhlana amalanga ama- 20 kuVelabahlinze 2005;

(iv) Umtlolo womthetho-kambiso, *i-addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), regarding learners with special needs, owagadangiswa kuGovernment Gazette, No.29466* yamhlana amalanga ali-11 kuNobayeni 2006, ungeniswe emtlolweni womthetho-kambiso, i*National policy pertaining to the programme and promotion requirements of the National Curriculum Statement emaGreyidini R-12 ; begodu*

(v) Umtlolo womthetho-kambiso, i-*addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), regarding the National Protocol for Assessment (ema Greyidini R-12)*, egadangiswe ku*Government Notice No.1267* ku*Government Gazette No. 29467* yamhlana amalanga ali-11 kuNobayeni 2006.

(d) Umtlolo womthetho-kambiso, iNational policy pertaining to the programme and promotion requirements *of the Isitatimende seKharikhyulamu yeLizwe loke amaGreyidi R-12* , begodu neengaba zesiTatimende somThetho-kambiso weKharikhyulamu nokuHlola njengombana zifakwe ezahlukweni 2, 3 begodu 4 zomtlolo lo eziphathelene nemikghwa namazinga we*National Curriculum Statement Grades R-12* . Ngakhoke, ngokuya ngokwe*section 6A ye South African Schools Act, 1996 (Act No. 84 of 1996,)* yakha isendlalelo sokobana uNgqongqotjhe weFundo esiSekelo abonelele isiliganiso samazinga nemiphumela kanye nekambiso yokuhlola umsebenzi womntwana bona ibe khona eenkolweni zomphakathi nezizijameleko.

1.3 IMINQOPHO EVAMILEKO YEKHARIKHYULAMU YESEWULA AFRIKA

(a) *IsiTatimende seKharikhyulamu yeliZweloke samaGreyidi R-12* sethula lokho okungathathwa njengelwazi, amakghono namagugu okumele kufundwe eenkolweni zeSewula Afrika. Ikharikhyulamu le inqophe ukuqinisekisa bonyana abantwana bazuza bebasebenzise ilwazi namakghono ngeendlela ezizwisekako emaphilweni wabo. Ngalokho, ikharikhyulamu ithuthukisa umqondo wokubuthelela ilwazi ebujameni bendawo leyo,ngesikhathi atjheja ukukateleleka eembopweni zephasi.

(b) *IsiTatimende seKharikhyulamu yeliZweloke amaGreyidi R-12* sifeza iminqopho yoku:

- hlomisa abafundi, ngaphandle kokutjheja ibhoduluko lezokuhlalisana-nezomnotho, ubulili, ikghono lezomzimba nofana lezengqondo, amakghono namagugu adingekako ukuzanelisa, begodu nokuzibandakanya okuzwisisekako emphakathini njengabahlali benarha etjhaphulukileko;
- ukwenza ifundo yamazinga aphezulu ifinyeleleke;
- ukwenza kube lula bonyana abafundi basuke emazikweni wezefundo baye emisebenzini; begodu
- kunikela abaqatjhi ngephrofayili eyaneleko yamakghono womfundi.

(c) IsiTatimende seKharikhyulamu yeliZweloke samaGreyidi R-12 sisekelwe eenkambisweni ezilandelako:

- Ukutjhuguluka kwezokuhlalisana : ukuqinisekisa bonyana ukungalingani kezefundo kwesikhathi esidlulileko kwalungiswa nokuthi amathuba alinganako wezefundo anikelwe zoke iingaba zesintu.
- Ukufunda ngomdlandla nangelihlo elihlabako : ukukhuthaza indlela yokufunda ngelihlo elihlabako nelinomdlandla, kunokobana kufundwe amaqiniso anikelweko ngehloko ngaphandle kokuwahlaba.
- Ilwazi namakghono asezingeni eliphakamileko : iimfuneko ezimbalwa zelwazi namakghono okufanele zifunyanwe kileyo naleyogreyidi, zibekiwe begodu zibekwe amazingeni aphakamileko, afunyanekako kizo zoke iimfundo.
- Ukuragela phambili : okumumethweko nobujamo baleyo naleyo greyidi kutjengisa ukuragela phambili ukusukela kokulula ukuya kokubudisi.

(d) Amalungelo wobuntu, ukufaka koke, ubulungiswa bezebhoduluko nokuhlalisana :ukufaka imigomo yobulungiswa kezokuhlalisana, kezebhoduluko begodu namalungelo wabantu njengombana kuhlathululiwe kumThetho-sisekelo weSewula Afrika. IsiTatimende seKharikhyulamu yeliZweloke amaGreyidi 10-12 itjhetjha khulu izinto ezifana nokutlhaga, ukungafani, ukungalingani, ubuhlanga, ilimi, iminyaka, abaphila nokukhubazeka begodu namanye amatshwayo.

- Ukukarekela amahlelo welwazi lobugugu bendabuko : ukuthabela umlando onothileko wenarha namagugu wenarha le njengezinto eziqakathekileko ukunothisa amagugu amumethwe emThethweni-sisekelo ; begodu
- Ukuthembeka, ikhwalithi nekghono : ukunikela ifundo emadanisekako ngekhwalithi, ububanzi nangokudepha kwefundo yakezinye iinarha.

(e) IsiTatimende seKharikhyulamu yeliZweloke amaGreyidi R-12 sinqophe ukukhiqiza abafundi abakwazi uku:

- bona nokurarulula imiraro nokuthatha iinqunto kusetjenziswa ukucabanga ngelihlo elibukhali nelokuzitlamela ;
- sebenzisana ngepumelelo nabanye njengamalunga wesiqhema ;
- hlela nokuziphatha begodu nokuphatha imisebenzi yabo ngokuziphendulela nangepumelelo ;
- buthelela, ukutsenga, ukuhlela bese bahlaziya ilwazi ngelihlo lokuhlaba ;
- khulumisana ngepumelelo basebenzisa amakghono wokubonwako/ wokubukelwako, wamatshwayo begodu /nanyana welimi ngeendlela ezinengi sebenzisa isayensi nethekhnoloji ngepumelelo batjengise, ngelihlo lokuhlaba, nokuziphendulela manqophana nebhodulukweni neempilo zabanye; noku
- Tjengisa ukuzwisisa iphasi bonyana linamahlelo anetjhebiswano ngokuyelela bonyana ukurarulula imiraro akwenzeki kukodwa ngeqadi.

(f) Ukuhlanganisa imihlobo ehlukahlukeneko yabafundi kufanele kube mgogodlha womkhandlu, wokuhlela begodu nokufundisa kileso naleso sikolo. Lokhu kungenzeka kwaphela nange boke abotitjhere banokuzwisisa okuhluzekileko bokobana iinqabo zokufunda zingalemukwa bezilungiswe bunjani,begodu ukuhlanganisa kungahlelelwa bunjani

Okuqakathekileko ngokuhlanganisa imihlobo ehlukahlukeneko yabafundi kuqinisekisa bonyana iinqabo ziyabonwa bezitjhejwa ngiyo yoke imikhandlu efaneleko ehlangana nomphakathi wesikolo, okufaka hlangana abotitjhere, iinQhema eziSekelako eziNzinze kumaDistrigi, iinQhema eziSekelako eziseZingeni leenHlangano, ababelethi neenKolo eziKhethekileko njengeendawo zemiThombo. Ukulungisa iinqabo ngetlasini, abotitjhere bafanele basebenzise amaqhinga amanengi wekharikhyulamu afana nalawo afakwe ku- *Guidelines for Inclusive Teaching and Learning* (2010) yoMnyango weFundo Sisekelo

1.4 UKWABIWA KWESIKHATHI

1.4.1 isiGaba esisiSekelo

(a) Isikhathi sokufundisa esiGabeni-esisiSekelo sitjengisiwe ngenzasi:

ISIFUNDO	IGREYIDI R (AMA-IRI)	AMAGREYIDI 1-2 (AMA-IRI)	IGREYIDI 3 (AMA-IRI)
ILimi leKhaya	10	7/8	7/8
ILimi lokuThoma lokweNgeza		2/3	3/4
IimBalo	7	7	7
AmaKghono wePilo • ILwazi lokuThoma • UbuKghwari bokuTlama • IsiFundo sokuziThabulula • UbuYena nokuHlalisana komuntu qobo lakhe	**6** (1) (2) (2) (1)	**6** (1) (2) (2) (1)	**7** (2) (2) (2) (1)
INANI	**23**	**23**	**25**

(b) Isikhathi sokufundisa samaGreyidi R, 1 no 2 ma-iri ama-23 begodu seGreyidi lesi-3 ma- iri ama- 25.

(c) Ama-iri alitjhumi abelwe amalimi emaGreyidini R-2. Begodu ama-iri ali-11 eGreyidini lesi-3. ILimi lekhaya labelwe ubunengi bama-iri abu-8 nobuncani bama-iri ali-7 begodu iLimi lokuthoma lokwEngeza labelwe ubuncani bama-iri ama-2 nobukhulu bama-iri ama-3 emaGreyidini 1-2 .ILimi lekhaya eGreyidini lesi- 3 labelwe ubunengi bama-iri- abu-8 nobuncani bama-iri ali-7 begodu ilimi lokuthoma lokwEngeza labelwe ubuncani bama-iri ama-3 nobunengi bama-iri ama-4

(d) Kumakghono wePilo iLwazi Lokuthoma labelwe i-iri 1 emaGreyidini R-2 nama -iri ama-2 njengombana kutjengiswe ngeembayaneni zeGreyidini lesi-3

1.4.2 isiGaba esiPhakathi

(a) Isikhathi sokufundisa esiGabeni-esiPhakathi sitjengisiwe ngenzasi:

ISIFUNDO	AMA-IRI
ILimi leKhaya	6
ILimi lokuThoma lokwEngeza	5
IimBalo	6
ISayensi Yemvelo neTheknoloji	3,5
ISayensi yokuHlalisana	3
AmaKghono wePilo • UbuKghwari bokuTlama • IsiFundo sokuziThabulula • UbuYena nokuHlalisana komuntu qobo lakhe	**4** (1,5) (1) (1,5)
INANI	**27,5**

1.4.3 isiGaba esiPhakemeko

(a) Isikhathi sokufundisa esiGabeni-esiPhakemeko sitjengisiwe ngenzasi:

ISIFUNDO	AMA-IRI
ILimi leKhaya	5
ILimi lokuThoma lokwEngeza	4
IimBalo	4,5
ISayensi yeMvelo	3
ISayensi yokuHlalisana	3
ITheknoloji	2
ISayensi yezomNotho nokuPhatha	2
UkuziJayeza zePilo	2
UbuKghwari bokuTlama	2
INANI	**27,5**

1.4.4 AmaGreyidi 10 - 12

(a) Isikhathi sokufundisa emaGreyidini 10-12 sitjengisiwe ngenzasi

ISIFUNDO	ISIKHATHI ESABIWEKO NGEVEKE (AMA-IRI)
ILimi leKhaya	**4.5**
ILimi LokuThoma lokwengEza	**4.5**
IimBalo	**4.5**
UkuziJayeza zePilo	**2**
Ubuncani bananyana ngiziphi iimfundo ezintathu ezikhethwe **esiQhemen**i **B** i-Anekstjha B, Amathebula B1-B8 yomtlolo womthetho-kambiso, i*National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R-12 , enqotjhiswe esigabeni* 28 somtlolo womthetho- kambiso onikelweko..	**12 (3x4ama-iri)**
INANI	**27,5**

Isikhathi esabiweko ngeveke singasetjenziselwa kwaphela ubuncani obufunwa ziimfundo zesiTatimende seKharikhyulamu yeliZweloke zamaGreyidi R-12 (TKZ) njengombana ziveziwe ngehla, begodu angeze zasetjenziselwa nanyana ngiziphi iimfundo zokungezelela ezingezelelwe erhelweni leemfundo. Lokha umfundi nakafuna ukungezelela iimfundo, isikhathi esingezelelweko kufanele sabelwe ukufundisa imfundo lezo.

ISIGABA 2: IHLATHULULO, IMINQOPHO, AMAKGHONO NOKUMUMETHWEKO

2.1 ISINGENISO

Esahlukweni sesi 2, esiGabeni esisiSekelo isitatimende somgomo wekharikhyulamu yezweloke yokuhlola iimbalo inikela abotitjhere ihlathululo yeembalo imigomo ethile, amakghono athile, iminqopho yokumumethweko, isisindo sokumumethweko, iinsetjenziswa ezitjhukumeziweko zesifundo seembalo eemfundweni zesiGaba esisiSekelo, imihlahlandlela ezitjhukumeziweko yokusekela abafundi abaneenqabo zokufunda iimbalo, iimbalo zehloko nokuthuthukisa ukufundisa amakghono wolwazi lokubala lwangaphambili ngeGreyidini R.

2.2 ZIYINI IIMBALO?

Iimbalo lilimi elisebenzisa amasimboli/ amatshwayo/amaphawu nenotheyitjhini ukuhlathulula ubudlelwano beenomboro, kweJiyomethri neenjamelo zegrafu. Kumisebenzi womuntu okufaka hlangana ukuqala, ukujamisela nokuphenya amaphetheni nobudlelwana obuqakathekileko ezintweni ezithintekako/ ezibonakala ngamehlo nesenzeko esiphathelene nokuhlalisana naphakathi kwamabumbeko weembalo ngokwazo. Kuyarhelebha ukuthuthukisa ikambiso yokomkhumbulo engezelela ilojikhi nokucabanga ngokuhlaba, ngokunemba nokurarulula imiraro ezakurholela ekuthatheni iinqunto.

2.3 IINHLOSO EZINQOPHILEKO

Ukufundisa nokufundwa kweembalo kuhlose ukuthuthukisa okulandelako emfundini:

- Ilemuko lelihlo lokuhlaba lokuthi ubudlelwano bembalo busetjenziswa njani epilweni ephathelene nezokuhlalisana, ibhoduluko, itjhebiswano lamasiko nokomnotho;
- Ukuzithemba nekghono lokuqalana namtjhana ngibuphi ubujamo beembalo ngaphandle kokuliywa kukwesaba iimbalo;
- Umoya werhuluphelo nethando leembalo;
- Ukuthokozela ubuhle nokukarisa kweembalo;
- Ukubona bonyana iimbalo ziyingcenye yemisetjenzana umuntu azitlamela yona;
- Umcabango ojulileko wokuzwisisa ukwenza umqondo weembalo ; no
- Ukuthola ilwazi elithile namakghono athlogekako woku:
  - Ukusebenzisa iimbalo eentweni ezithintekako, zokuhlalisana nemiraro yeembalo;
  - Ukufunda okuhlobana nokufundiswako (isib.ezinye iimfundo) noku;
  - Ragela phambili nokufunda iimbalo.

2.4 AMAKGHONO ANQOPHILEKO

Ukuthuthukisa amakghono weembalo aqakathekileko umfundi kufanele:

- athuthukisa ukusebenzisa ilimi lembalo ngefanelo;
- athuthukise ilwazi leenomboro, umqondo nomboro, nokubalisisa namakghono wokwenza;
- afunde ukulalela, ukukhuluma, ukucabanga, ikghono lokusebenza nokurarulula imiraro ngelojikhi nokusebenzisa ilwazi leembalo alizuzileko;
- akufunda ukurhubhulula , ukuhlaziya, ukujamisela nokurhumutjha ilwazi;
- akufunda ukuveza nokurarulula imiraro; noku
- ukwakha ilemuko lokubaluleka kwendima edlalwa ziimbalo epilweni yamambala, okufaka hlangana ukuthuthuka komfundi ngokwakhe.

2.5 IMINQOPHO YEENGABA ZOKUMUMETHWEKO

Esigabeni Esisisekelo, iimbalo zithatha iingaba ezihlanu zokumumethweko. Esinye nesinye isigaba sifaka isandla ekutholeni amakghono anqophileko. Ithebula elingenzasi litjengisa umnqopho ovamileko walokho okumumethwe esigabeni nomnqopho onqophileko walokho okumumethwe Esigabeni Esisisekelo.

ITHEBULA 2.1 IMINQOPHO YEENGABA ZOKUMUMETHWEKO ESIGABENI ESISISEKELO

ILWAZI LOKUMUMETHWEKO LEEMBALO		
Isigaba sokumumethweko	**Isigaba esivamileko sokumumethweko**	**Iminqopho Enqophileko yesigaba Esimumethweko Esigabeni Esisisekelo**
Iinomboro, ama-Opharetjhini nobudlelwano	Ukuthuthukisa umqondo weenomboro okufaka hlangana: • Ihlathululo yemihlobo ehlukeneko yeenomboro; • Ubudlelwana phakathi kweenomboro ezahlukahlukeneko; • Ukuhlobana ngobukhulu kweenomboro ezihlukahlukeneko; • Ukujanyelwa kweenomboro ngeendlela ezahlukahlukeneko; noku • Umphumela wokusebenza ngeenomboro.	Irherho leenomboro ezithuthukiswa ekupheleni kweGreyidi yesi-3 lifaka hlangana iinomboro eziphelelekо okungasenani 1000 nama fraktjhini apheleleko. Esigabeni lesi, umqondonomboro womfundi uthuthukiswa ngokusebenzisa izinto eziphathekako ngokubala izinto ezibuthelelweko, ukuhlukanisa nokubuthelela ubungako, ngokubala ngokweqa ngeendlela ezihlukahlukeneko, ukurarulula imiraro yobujamo obuthileko (igama) nokwakha nokwakha nokuphula iinomboro. • Ukubala kujayeza abafundi ukuthuthukisa umqondo nomboro, iimbalo zehloko, isilinganiso, amakghono wokubala nokubona amaphetheni. • Ukuthuthukisa komqondonomboro kurhelebha abafundi ukufunda nngemikghwa/ ngemikhuba yeenomboro nokuthuthukisa iindlela ezingenza ukubala kubelula. • Ukurarulula imiraro ngobujamo /ngobunjalo kungenza abefundi bakghone ukuveza imicabango ekungeyabo ngokukhuluma nangokutlola ngemigwalo namngamatshwayo. • Abefundi bakha ukuzwisisa umgomosiseko wokuhlanganisa, ukukhupha, ukubuyabuyelela nokuhlukanisa. • Abefundi bathuthukisa umqondo wefraktjhini ngokurarulula imiraro efakahlangana ukwabelanakobungako kwezinto eziphathekako ngokusebenzisa imigwalo. Imiraro kufanele ifake hlangana iinsombululo ezineensalelo zeenomboro eziphelelekо nofana amafraktjhini. Ukwabelana akukafaneli kuthole ingcenye yokipheleleko kwaphela, kodwana nokufunyana iingcenye zokubuthelelwa kwezinto. Esigabeni lesi abafundi basengakabi nobukghoni bokufunda nofana ukutlola amatshwayo wamafraktjheni.

ILWAZI LOKUMUMETHWEKO LEEMBALO		
Isigaba sokumumethweko	**Isigaba esivamileko sokumumethweko**	**Iminqopho Enqophileko yesigaba Esimumethweko Esigabeni Esisisekelo**
AmaPhetheni, amaFanktjhini ne-Aljibhra	I-Aljibra lilimi lokurhubhulula nokukhulumisana ngokunengi kweembalo begodu kunganabiselwa eenfundweni zemisebenzi nobunye ubudlelwana obuphakathi kwezinto ezitjhugulukako. Ingcenye ephakathi yesigaba sokumumethweko kungobana umfundi aphumelele amakghono nokweza ngokusebenzisa i-Aljibra. Begodu kunqophe eku: • Ekuhlathululeni amaphetheni nobudlelwana ngokusebenzisa amatshwayo wokuphandhusela, amagrafu namathebula; noku • Nokubona ukuhlaziya kokuvamileko nokutjhugulukako emaphethenini, nobudlelwano ukwenza bonyana umfundi enze ibonelophambili nokurarulula imiraro.	Esigabeni lesi, abafundi basebenza ngakho kokubili: • Iphetheni yeenomboro (isib. ukubala ngokweqa) na • Maphetheni weJiyomethri (isib. iinthombe) Abefundi kufanele basebenzise izinto eziphathekako, imigwalo namatshwayo webumbeko ukukopa, ukwandisa, ukuhlathulula nokutlhama amaphetheni. Ukukopa amaphetheni kusiza abafundi bonyana babone ilojigi yokubana iphetheni yenziwe bunjani. Ukungezelela iphetheni kusiza umfundi ukuhlola bonyana bayizwisisile ilojijgi yephetheni. Ukuhlathulula iphetheni kusiza abafundi ukuthuthukisa amakghono welimi. Ukunqophisa ephethinini yelojigi kwendlalela isiwekelo sokuthuthukisa amakghono wokucabanga we-Aljibhra. Amaphetheni wenomboro asekela ukuthuthukisa umqondonomboro nemizwa yokusebenza ukwakha iinomboro, umbalo nobudlelwano. Amaphetheni weJiyomethri ifaka hlangana nokulandelanisa imida, amabumbeko nezinto begodu namaphetheni asephasini. Emaphethenini weJiyomethriki abafundi basebenzisa ilwazi labo lesikhala nebumbeko.
Isikhala nobujamo (Jiyomethri)	Isifundo sesikhala nobujamo kwenzangcono ukwizisisa nokuthanda/ ukuthokozela kwamaphetheni, ngokunembako, ngokuphumelelako nangobuhle bebumbeko ngokwemvelo nangendlela yokuphila/yesiko. Inqophe • matshwayo (ubunjalo) ubudlelwano • ibandulo nelwazi, indawo/ ubujamo noku • tjhugulula ubujamo obubusobubili nezinto ezinobujamo ezibobusontathu.	Esigabeni lesi abafundi banqophe ezintweni ezinejamo ezibusontathu (3-D), nobujamo obubusobubili (2-D), indawo nelayelo. • Abafundi bahlola izinto zobujamo ezibusontathu (3-D) nobujamo obubusobubili (2-D) ngokuhlukanisa, ngemihlobo, ngokuhlukanisa ngeengaba, ukuhlathulula nokuzitjho. • Abafundi bagwala ubujamo/amajamo bebakhe ngezinto. • Abafundi babona bebahlathulule amajamo/ubujamo bezinto ezisemphakathini bazifanise nezinto nobujamo beembalo. • Abafundi bahlathulula ubujamo bezinto, bonangokwabo nabanye ngokusebenzisa ilwazimagama elifaneleko. • Abafundi balandela bebanikele nelayelo.
Ukumeda	Isilinganiso sinqophe ekukhethweni nekusetjenziswa kwamayunithi afaneleko, iinlinganisi/iimedo, amafomula ngokwesinganiso kwezakhi zezehlakalo, ubujamo, izintonebhoduluko. Ihlobanisa ngokunqophileko ngokwesayensi nangobuthegnigi, nangomnotho wephasi ukuvumela umfundi: • Ukwenza isilinganiso esifaneleko; noku • Thlogomela ngokuzwakalako kwesilinganiso nemiphumela.	• Esigabeni lesi umnqopho wesilinganiso wabafundi uthuthukiswa ngokusebenza ngokwenza ngezinto eziphathekako ezihlukeneko namajamo, ukufunda ngamatshwayo/ngobunjalo bobude, umthamo, ubudisi, indawo nesikhathi. • Abafundi balinganisa amatshwayo wobujamo nezinto ngokusebenzisa ama unithi angakalungiselelwa lapho kufaneleko, okufana nezandla, amagadango isimumathi njll. • Abafundi bamadanisa ubungako obuhlukahlukeneko ngokusebenzisa amagama amadanisako afana nokuthi, omude/omfitjhani, ebudisi khulu/elula njll. • Abafundi baziswa emayunithi avamileko afana namagremu, khilogremu, mililitha, amalitha, amasentimitha, amamitha njll. Imisebenzi ehlobana nesikhathi kufanele yakhiwe ngelemuko lokobana ukuzwisisa kwabafundi ngokudlula kwesikhathi kufanele kuthuthukiswe ngaphambi kokufundiswa kwesikhathi.

ILWAZI LOKUMUMETHWEKO LEEMBALO		
Isigaba sokumumethweko	**Isigaba esivamileko sokumumethweko**	**Iminqopho Enqophileko yesigaba Esimumethweko Esigabeni Esisisekelo**
Ukuphatha idatha	Ngesifundo sokuphatha imininingwana, umfundi uthuthukisa amakghono wo: • Buthelela • Ukugqugquzela/ ukuhlanganisa ngeqhinga • Ukubonisa/ukubukisa noku • Ukuhlaziya nokurhumutjha idatha enikelweko.	Umnqopho wokufundisa nokufunda ngokuphathwa kwemininingwana efundweni esisekelo esekuhlukanisa ngeengaba izinto nemininingwana ngeendlela ezihlukahlukeneko, kususelwa ebujameni obuhlukahlukeneko bezinto nofana imininingwana/idatha. • Abafundi balindeleke bonyana barhumutjhe bebakhe isithombemgwalo negrafu yebha ekhambisana nokukhambelana ngakhunye ngakunye ngemininingwana enikeliweko.

2.6 UKWABIWA KWESIKHATHI SOKUMUMETHWEKO NGOKWEENGABA

Ukwabiwa kwesikhathi seembalo sokumumethweko ngokweengaba kusebenzela iinhloso eziqakathekileko ezimbili: Okokuthoma ukwabiwa kwesikhathi kunikela ikhokhelo lobungako besikhathi esithlogekako ukufundisa okumumethweko kileso naleso isigaba sokumumethweko ngokwaneleko; kwesibili isikhathi esabiweko sinikela ikhokhelo lobungako kokumumethweko okusabalaliselwe ekuhlolweni. Ukwabiwa kwesikhathi kweengaba zokumumethweko azifani Efundweni Esisekelo.

Ithebula 2.2 Ukwabiwa kwesikhathi kweengaba zokumumethweko esiGabeni esisisSekelo

Ukwabiwa kwesikhathi kweengaba zokumumethweko			
Iingaba zokumumethweko:	**iGreyidi 1**	**iGreyidi 2**	**iGreyidi 3**
Iinomboro,ama-Opharetjhini nobudlelwano*	65%	60%	58%
AmaPhetheni, amaFanktjhini ne-Aljibhra	10%	10%	10%
Isikhala nobujamo (Jiyomethri)	11%	13%	13%
Ukumeda	9%	12%	14%
Ukuphatha iDatha	5%	5%	5%
	100%	**100%**	**100%**

*EmaGreyidini R – 3, kuqakathekile bona isigaba seenomboro, ama-Opheretjhini nobudlelwano kumnqopho oqakathekileko weeMbalo. Abafundi badinga ukuphuma Efundweni Esisekelo banesiqiniseko seenomboro ngokuzizwa nokusetjenziswa butjhelela. Ihloso kukobana abafundi bakghone bebazethembe ngeenomboro nokubalisisa. Ngalesi isizathu isikhathi senotjhinali esabelwe Iinomboro, ama-Opharetjhini nobudlelwano singezelelwe. Umsebenzi omnengi wephetheni kufanele unqophe kuphetheni yeenomboro, ukuhlanganisa ikghono leenomboro ebafundini ukuya phambili.

2.7 IIMBALO ESIGABENI ESISISEKELO

Efundweni Esisekelo iimbalo zilingisa ngokwamanga ukuhlobana phakathi kwepilo yangaphambili-kwesikolo nepilo engaphandle kwesikolo ngakesinye isandla, begodu ngakesinye isandla kube ziiMbalo ezisezingeni eliphezulu, emaGreyidini alandelako. EmaGreyidini asesephasi abantwana kufanele kuvezwe epepeneneni ilemuko lakhe leembalo elibanikela amathuba amanengi wokwenza, wokukhuluma newokurekhoda imicabango yeeMbalo okungeyabo.

Ubungako besikhathi esiqithwa eembalweni yenza, iinqunto zamandla atjhayisanako ekuthuthukisweni umqondo weeMbalo namaKghono. Imisetjenzana abantwana ababandekanywa kiyo kufanele kungabi ngeyokubalibazisa nje kwaphela kodwana ifanele inqophe eeMbalweni njengombana kwethuliwe kwiKharikhyulamu.

2.7.1 Imihlahlandlela etjhukunyeziweko yokuphatha ikumba yokufundela.

Soke isikhathi esabiweko seembalo ngelanga kufanele sithathwe njengehlelo lesikhathi esisodwa. Ngesikhathi seembalo okulandelako kufanele kwenziwe:

- **Umsebenzi wetlasi loke**
  - Iimbalo zehloko
  - Ukuhlanganisa imiqondo
  - Ukuphathwa kwetlasi (ukwabiwa kwemisetjenzana ngokuzijamela njll)
- **Ukufundisa ngesiqhema esincani**
  - Ukubala
  - Ukuthuthukisa umqondo wenomboro (ngokukhuluma nangemisetjenzana yokwenza)
  - Ukusombulula imiraro (ngokukhuluma nangemisetjenzana yokwenza)
  - Ukurhekhoda okutloliweko
  - Ukuthuthukisa iindlela zokubalisisa (ngokukhuluma nangemisetjenzana yokwenza)
  - Amaphetheni
  - Isikhala nobujamo
  - Ukumeda
  - Ukuphatha idatha
- **Umsebenzi wokuzijamela**

  Abafundi bayazilungiselela bebahlanganise ukuthuthukisa imiqondo emfumndweni zetlasi loke nekufundisweni ngesiqhema esincani.

  Imisetjenzana yetlasi loke: Umnqopho uzokuba kakhulukazi eembalweni zehloko, ukuhlanganisa imiqondo nekwabeni kwemisetjenzana yokuzijamela okungasenani imizuzu ema-20 ngelanga ekuthomeni kwesifundo seembalo. Ngalesosikhathi utitjhere uzokusebenzisa netlasi loke ukubona nokurekhoda (lokha kufaneleko) ilanga losuku, zingaki enyangeni, inani labafundi abakhona nabangekho, nobujamo bezulu. Iimbalo zehloko zifakahlangana iimbalo zehloko ezisungulako ezifana “nenomboro ezangemuva nangaphambili ko-8, okunengi/nokuncani kuno-8 nga-2 yi: 4+2; 5+2; 6+2” njll. Ngaso leso sikhathi utitjhere angahlanganisa imiqondo engaba budisana. Begodu kuqakathekile bona itlasi inikelwe imisetjenzana evamileko begodu nemisetjenzana yokuzijamela abazenzela yona ngokwabo, ngalesosikhathi utitjhere uraga ngesigaba sesiqhema esincani.

  Iimfundo eziqaliswe esiqhemeni esincani: Ngeziphumelelisako nange utitjhere athatha isiqhema sabantwana esincani (8 ukuya 12) abasezingeni elilinganakobabe naye emadeni nofana ematafuleni wabo, ngasikhathi leso itlasi loke libandakanywe emisetjenzaneni yokuzijamela. Utitjhere usebenza nabentwana **ngokukhuluma nangokwenza**, ababandakanye emisetjenzaneni efana nokubala, ukulinganisa, ukuthuthukiswa komnqopho weenomboro, imisetjenzana yokurarulula imiraro, nemisetjenzana ephathelene namaphetheni, isikhala nobujamo, ukumeda nokuphatha idatha okufanele kuhlelwe ngokuqophelela.

  Ukuze uqinisekise ukufunda umsebenzi otloliweko (incwadi yokusebenzela, isibonelo iphepha lokusebenzela, amakarada wokusebenzela njll) kufuneka kube yingcenye yomsebenzi wesiqhema nakungakghoneka/nakukghonakalako. Abafundi kufanele babe neentlabagelo zokutlola (incwadi yokusebenzela njll) isentjenziselwe imisetjenzana yokurarulula imiraro. Isigaba sesiqhema kufanele bakhuthazwe **“ukwenza, ukukhuluma ukulingisa nokurekhoda”** ukucabanga kwabo kweembalo.

Abotitjhere kufanele banakekele bangaqaleliphasi/banganyazi abafundi ababuthaka, kufanele nabo badoswe. Kubalula ukumedanisa izinga lobudisi lomsebenzi wabafundi nangabe utitjhere usebenza ngezinga elipheze lalingana, Okungenani iinqhema ezisemazingeni ahlangeneko zingasebenza ngcono nekwakhiwako, kumeda kwenziwa amaphetheni nofana imisetjenzana yokuhlukanisa ngeengaba, nofana kwemidlalo.

Imisetjenzana yokuzijamela: Ngesikhathi utitjhere asebenza ngemfundo ezinqophiswe esiqhemeni esincani, abafundi boke ngetlasini kufanele babandakanywe ngehloso yemisetjenzana ehlukahlukeneko yeembalo enqotjhiswe ekuqiniseni nekuhlanganiseni iminqopho namakghono asele afundisiweko ngesikhathi esinqotjhiswe esiqhemeni esincani. Imisetjenzana yokuzijamela kufanele ihlukaniswe ukwenzelela bonyana inakekele iinqhema ezinamakghono ahlukeneko. Imisetjenzana yokuzijamela ifanele ifake hlangana:

- Imisetjenzana yencwadi yokusebenzela
- Amaphepha wokusebenzela ahlelwe ngokwemihlobo/amakarada wokusebenza wokubala, ukusebenzisa iinomboro, imiraro elula esebujameni (imiraro yamagama) njll
- Imidlalo yeembalo efana neLudo, amadomino, amaphazeli wejigso nama
- AmaThaski afakahlangana nokwakha, ukuhlukanisa ngeengaba, ukuphethina nokumeda.

Isikhathi seembalo kufanele sinikele ukulekelela ebafundini abaneenqabo zokufunda, imisetjenzana engezelelako yabakghonako, imisetjenzana yokuhlola njll.

Imisetjenzana yokuzijamela neyesiqhema esincani kufanele iqalwe (ngokwenza, nangokukhuluma) itshwaywe bese iyaqalisiswa (ukurhekhoda okutloliweko) ngutitjhere njengengcenye yokuhlola okulungiselelweko nengakalungiselelwa.

Ukulandela umkhondo wempendulo zabafundi (ngokukhuluma, ngokucocwako, ngokwenza, ngokurekhoda okutloliweko) esimeni sokufunda nokufundisa evumela utitjhere ukwenza ukuhlola okuragela phambili, ukulandelela iragelophambili nokuhlela ilekelelo ngokuya kwabafundi abaneenqabo zokufunda.

2.7.2 Abafundi abaneenqabo ekufundeni iimbalo

Kuqakathekile bonyana abafundi abahlangabezana neenqabo zokufunda iimbalo bonyana kuvezwe epepeneneni ekufundeni okusekelwe ngemisetjhenzana yokufunda. Ukwenza kweemboniso kusetjhenziswa izinto ezibonakalako ngokuhlanganyela nemisetjhenzana yokwenziwa kufanele isetjhenziswe ithutjana elide kunalabo abafundi abakghonako ngombana ukutjhugulukela emisebenzini engabonakaliko ngokurhabako kungabanga ukutjhuragana nokusalela. Abafundi labo bangadinga nofana banikelwe isikhathi esinengi soku:

- Qedelela imisebenzi yokuhlola namathaski
- Ukuthola amakghono wokucabanga (amaqhinga okungewabo)

Inani lemisetjhenzana okufanele iqedelelwe kufanele yehliswe ngaphandle kokuzwana ngokulisa okhunye iminqopho namakghono lawo anqotjhiweko.

2.7.3 Iimbalo zehloko

Iimbalo zehloko zidlala indima eqakathekileko kukharikhulamu. Amabhondi weenomboro nethebula yokkubuyelela okulindeleke bona abafundi bawazi nofana bawakhumbule ngokurhabako keliny nelinye igreyidi arhemisiwe. Ngokungezelelweko, iimbalo zehloko zisetjhenziswa ngokubanzi ngokuhlola iinomboro eziphakamileko ezihlangana kweenlinganiso ezimbili ngokubala ngokweqa nangokwenza imisetjenzana efuna ukuya phezulu naphasi elerini. Isib. Utitjhere wegreyidi yesi 3 angahle abuze imibuzo elandelanako, “thoma nga 796 ungezelela nge 7, Iye ma 803. Yenza lokhu kwehle nge 5 Iye ma 798. Ngezelela nge 10... ungezelela 2... ungezelele nga 90 ... yehlisa nga 5 ” njll. Imisetjenzana leyo irhelebha abafundi ukwakha inambalayini yembalo zehloko.

Iimbalo zehloko ziboniswa khulu ekubaleni nesahluko somqondo wokuthuthukisa inomboro okuhlobanisa inhloko zeenomboro namaPhetheni begodu kungenzeka ngesikhathi sokumeda nemisetjenzana yokuphatha kwedatha. Nakwenziwa iimbalo zehloko, utitjhere angakateleli abafundi ukwenza iimbalo zokubalisisa abangakwazi ukuzenza-iintlabagelo zokutlola nofana izinto zokubala kufanele zihlale njalo zikhona ukwenzelela abafundi abasazithlogako

2.8 IGREYIDI R

Indlela yokufunda i-IiMbalo kufanele isekelwe emithethweni yokuhlanganisa ngokuzeleko nokufunda okusekelwe ekudlaleni. Utitjhere kufanele asebenzele phambili, abemlamuli kunokuba mkghonakalisi. Umlamuli wenza amathuba amanengi wokufunda anganakuqakatheka avela ngokuzenzakalelako ngezikhathi semisetjenzana edzimelele emntwaneni efana nokudlala ngokutjhaphuluka ekhoneni lomkhumbulo olibhudango nofana endaweni lapha kwakhiwa khona ngamabhlogo, emisetjenzaneni yokudlala ngehlabathi namanzi okufaka imisetjenzana ekhokholwa ngutitjhere, enqophiswe emqondweni wokubala, ukuthuthukiswa komqondonomboro, isikhala nobujamo, amaphetheni, isikhathi neminye imisetjenzana yokuthoma i-IiMbalo. Umbala ngokwawo awusiwo umqondo we-IiMbalo, kodwana ungasetjenziselwa ukuthuthukisa umqondo we-IiMbalo ngemisetjenzana efana nokuhlela ngemihlobo, ukuhlela ngeenqhema nokuhlukanisa ngeengaba.

Woke amahlangothi weGreyidi R, okufaka hlangana ibhoduluko letlasi nokujayela ukufundisa nokufunda, kufanele kukhuthaze ukuthuthukisa umntwana ngokuzeleko. Ukuthuthuka okuhlanganisiweko nokuthoma ukwazi iimbalo okufakahlangana nokuthuthukiswa kokusebenzisa umkhumbulo

(ukurarulula-umraro, ukucabanga nokucabangisisa okuhlelekileko), ukuthuthukisa kwelimi (ilimi le-IiMbalo) nokubona kwanga uyezwa begodu nangokwemizwa nangokuhlalisana. Woke amahlangothi lawa angathuthukiswa ngeendatjana, iingoma, imidunduzelo, imidlalo yemino neyamanzi, amathoyisi wokufunda afakahlangana umdlalo webhodi, imisetjenzana yokwakha nokuhlola (ubudisi, isikhathi, ubungako, ukumeda njll). Ukudlala ngokuzakhela engqondweni, ukudlala ngaphandle nemidlalo yekundleni yezemidlalo. Imidlalo eminengi ingafakahlangana ihlangothi lenumeresi, isibonelo ukulinganisa ngesikhathi sokupheka nofana ukubala nakuthengwako.

Ngamanye amagama ukukghona ukuthoma ukubala nakuhlobana kwemiqondomagama weembalo kufanele njengokufundisa okuhle kulandele imithetho yokufunda elandelako lapha abantwana badlula eengabeni eentathu zokufunda:

- Isigaba sekhinestethiki (ilemuko lemiqondo ngemizimba nangemizwa);
- Isigaba sokuphathekako (3-D), kusetjenziswe izinto ezihlukahlukeneko ezifana namabhlogo, iimvalo zamabhodlela, iingojwana nezinyo izinto ezisemphakathini);
- Iphepha nepensela (iinjamiseleli ezisaphathekako kusetjenziswa imigwalo, amakarada amadanisako njll)

EGreyidini R ithebula lesikhathi libizwa **ihlelo langamalanga** (*qala* Umfanekiso woku-1) begodu ihlukaniswe ngeengaba ezintathu eziqakathekileko zibizwa:

- Imisetjenzana ekhokhelwa ngutitjhere
- Imisetjenzana yangamalanga/evamileko
- Imisetjenzana esungulwa bantwana nofana ukudlala ngokutjhaphuluka.

Umfanekiso woku-1: Ihlelo langamalanga le Greyidi R

(Kusuka ± 7:30 – 13:00)

UKUFIKA NOKUDLALA OKUTJHAPHULUKILEKO

36 imizuzu

Ukulotjhisa Amalanga
Wamabeletho Iregistara
Iindaba

IIMbalo
AmaLimi
AmaKghono WePilo

IMISETJENZANA ERHOLWA NGUTITJHERE
IiMbalo; AmaLimi; AmaKghono WePilo

50 imizuzu

- UMSEBENZI WOBUKGHWARI (ngamalanga: 1 EQAKATHEKILEKO + 2/3 imisetjenzana esekelako)
- UKUDLALA BATJHAPHULUKILE NGENDLINI
- UKUBUTHA NGAPHAKATHI

- Imidlalo yokuzenzisa
- Ukulingisa
- Ukudlala ngokwakha
- Amabhblogo
- Kokufunda
- Izinto zokudlala ezfundisako
- Imidlalo ecabangisako
- Amaphazela
- Ihugwana yeencwadi

30 imizuzu

IMISETJENZANA ERHOLWA NGUTITJHERE
IiMbalo; AmaLimi; AmaKghono WePilo.

10 imizuzu

Ukuya ngendlwaneni kwangamalanga
IiMbalo; AmaLimi; AmaKghono WePilo

20 imizuzu

IINQABULI:
Amalimi, Iimbalo, AmaKghono WePilo

60 imizuzu

Ukudlala utjhaphulukile ngaphandlenokubutha

- Ukudlala ngamanzi
- Ukudlala ngesanda
- Ukulingisa
- Iimbholo
- Ukujinka
- Izinto zokudlala ezinamavili
- Izinto zokudlala ezifundisako
- Ijungel jimu
- Amatayere
- Ukuthabulula umzimba
- Imidlalo

10 imizuzu

Ukuya ngendlwaneni kwangamalanga
IiMbalo; AmaLimi; AmaKghono WePilo.

30 imizuzu

IMISETJENZANA ERHOLWA NGUTITJHERE
IiMbalo; AmaLimi; AmaKghono WePilo.

30 imizuzu

INDATJANA ngamalanga

Ukuphumula /isikhathi sokuthula nokukhamba

IIMBALO

- Imisetjenzana esuselwe kuma (IiMbalo).
- Iingoma nombhino
- Imisetjenzana ebonakalako
- Imilolozelo yokubala
- Ukucocisana ngommongo
- Isitjengiso – mbono sesayensi
- Ukudlala okutjhaphulukileko
- Imisebenzi yangamalanga

AMALIMI

- Imisetjenzana esuselwe kuma (ILimi Lekhaya).
- Iindatjana
- Umdlalo wesiteji
- Iincwadi / iinthombe
- Ukufundi iinthombe
- Ukucocisana ngeenthombe
- Imisetjenzana ebonakalako
- Ipostara yababelethi
- Incwadi yomzali
- Iindaba
- Iinkondlo / imilolozelo
- Umbhino / iingomo / imilolozelo
- Umtjhinin wokudlala amakhasede
- Ukucocisana ngommongo
- Imidlalo yemikhambo yabantu
- Imisebenzi yangamalanga
- Ukiudlala okutjhaphulukileko

AMAKGHONO WEPILO

- Imisetjenzana esuselwe kuma (AmaKghono WePilo).
- Imidlalo yemikhambo yabantu
- Umvumo nombhino
- Iinkondlo nemilolozelo
- Ukucocisana ngommongo
- Amalanga wamabeletho
- Imisebenzi yangamalanga
- Ukudlala okutjhaphulukileko

Igandelelo kufanele libe sekusebenziseni amahlangothi welandelano lemilayelo ukukhuthaza ukuzuza kokuthoma ukwazi inumeresi ngendlela esebujameni bokudlala nangokuzenzakalelako. Isibonelo, amathuba wokufunda inumeresi ngokukhokhelwa ngutitjhere enziwa ngesikhathi sendulungu. Iindulungu zinganikelwa umnqopho wokubala. Ekuseni ngesikhathi sokulotjhisana nalapha nakuqalwa abantwana abakhona nabangekho ingathathwa njengethuba lokudlala ngeenomboro isibonelo, ukubala. Ezinye iindulungu ezifana nendulungu ye-IiMbalo, indulungu yokuzwa inga uyabona, yokusikinyeka, yomvumo neyesayensi zinganikela umnqopho we-IiMbalo.

Imisetjenzana yobuciko bokuzithlamela ingagandelela i-IiMbalo isibonelo, ukusebenzisa amabumbeko weJiyomethri ezifana nendulungu nesikwere ukwenza ikholaji nofana ukutlama ifreyimu yesithombe. Itjhadi lobujamo bezulu, ikhalenda nendulungu yelanga lamabeletho zinikela ithuba lokuhlola umnqopho wokubala. Kulilwazi nokusungula kwakatitjhere okungandise ikghono lokufunda.

- *Umsebenzi wangamalanga* lapha abantwana bazibandakanya khona efana nesikhathi sokudla, isikhathi sokubuyelela ekhaya, nesokuya endlwaneni singanikelwa umnqopho oqaliswe ekubaleni. Boke abentwana abembethe izambatho ezibomvu baye endlwaneni kokuthoma (umbala neenomborosikhundla) omunye nomunye umntwana uthola isitja nembedlezwana (ukukhambelana kunye nakunye), uThandi ubawa imbedlezwana enye godi, uSipho akasayifuni enye imbedlezwana. Utitjhere ubona asebenzise isikhathi leso njengesikhathi sokufundisa ngamanye amagama utitjhere abemlamuli wokufundisa.
- Ngesikhathi *sokudlala ngokutjhaphululaka* utitjhere angathuthukisa **iiMbalo ezisathomako** ngokwakhiwa okufaneleko kwendawo yokudlalela. Ukudlala okutjhaphulukileko kwangaphandle okufana nokukhwela ifreyimu yesigodo nofana ukukhwela itsikiri kungathuthukisa ilwazimagama weembalo afana naphezulu/phasi, masinya/buthaka, ngaphasi/ngaphezulu njll. Ukudlala ngehlabathi namanzi kungangezelela ukuzwisisa kwemiqondo efana nobudisi nomthamo. Yoke imisetjenzana izokungezelela amakghono wokuzwa kwanga uyabona enza, lokhu kuba yengcenye yokuphila njengendabuko okutholakala ngokuphumelela ekufundisweni okuhleliweko kwelitheresi nenumeresi. Iimbonelo zamakghono ngilezi:
  - ukuthuthukisa ukuzwisisa ubujamo ebusesikhaleni isibonelo, ngemuva, ngaphambi kwe, ngaphasi kwe nofana hlanu kwento (lokhu kungahlanganiswa nokujanyelwa kwedijithi); ne
  - ukunqophisa nelathelarithi (lokhu kungahlanganiswa nokubunjwa kwenomboro neledere, nokufunda kusukela ngesinceleni ukuya ngesidleni)

Ukulungiselela okwendlalwe ngehla kutjengisa indlela ekhuthaza indlela yokurarulula umraro, ukucabanga nokucabangisisa isikhathi sokufunda, utitjhere angakhuthaza abantwana bonyana batjengise ngeenquto nebonelophambili lokungenzeka isibonelo, Njengokuthi isimumathi esisetjenziswe ngesikhathi sokudlala ngokutjhaphuluka singathatha umthamo omnengi kunesinye.

Ngokwenza iintjhukumezo ezingarhelebha nokumema umntwana bonyana acabange ngezinye iindlela zokurarulula imiraro. Utitjhere angakhuthaza abantwana ukucabanga ngokujulileko nangeendaba nangeenqunto abazithathako. Ngaleyondlela kuzabe kungasi ngokweembalo kwaphela kodwana ukuthuthukisa okupheleleko ngelihlo elihlabako okuvezwa **Sitatimende soMthetho-kambiso weKharikhyulamu nokuHlola** kulethwa ngokudlala.

Ukuhlolwa eGreyidini R kufanele kube ngokungakalungiselelwa begodu abantwana akukafaneli babekwe ebujameni bokutlola ukuhlola.

Kungalesi sizathu imisetjenzana yokuhlola ingakafakwa e**Sitatimende Somthetho-kambiso Wekharikhyulamu nokuHlola** eGreyidini R. Omunye nomunye umsebenzi wokuhlola ufanele uhlelwe ngokuqophelela ukuze ihlanganise nemihlobobohlobo yamakghono.

EGreyidi R ukuhlolwa okunengi kwenziwa ngokubukela, lapho utitjhere arekhoda khona imphumela yokuhlolwa ngokusebenzisa irherho lokuhlola. Ngokukhamba konyaka, isithombe esizeleko ngomntwana ngamunye siyakheka, zizaliswe ngeentjhijilo nangobukghoni bakhe kwenza bonyana iintjhijilo ziqalelelwe, ubukghoni buthuthukiswe. Lokhu kuvumela intjhijilo bonyana ziqalelelwe nobukghoni buthuthukiswe.

Ihlelo lokufunda elihlelelweko langekumbeni yokufunda ehlelwe ngokusekelweko afanele angenziwa, njengombana angalekeleli ukukghonakala kweNumeresi emntwaneni weGreyidi R.

UGreyidi R akukafaneli kube yiGreyidi 1 eyehlisiweko. IGreyidi R unemikghwa yayo ehlukileko esekelwe ngokuthi umntwana oseminyakeni leyo wenza njani umqondo ngephasi aphila kilo, nokuthi uzuza njani ilwazi, amakghono, amagugu nendlela yokucabanga ebanikela amathuba weminyaka yokufunda okuhlelelweko.

2.9 IINSETJENZISWA EZIPHAKANYISIWEKO: ITLASI LEEMBALO LESIGABA ESISISEKELO.

- Iimbali
- Idayisi elikhulu
- Ifreyimu ekulu yokubala
- Itjhadi lobude
- Iphostara ekulu eneenomboro 1 – 100 nephostara yegridi yeenomboro 101 – 200 (itjhadi lenomboro ezi-100)
- Amanambalayini ahlukahlukeneko (ajame rwe nathabaleleko)
- Isede yama karada flardi (amakarada anabisako)
- Imali yokudlala — iinhlamvu zemali nemali yephepha.
- Ikhalenda yonyaka loyo
- Iwatjhi ekulu yamasiba yebodeni
- Isikala sokudzimelela
- Amabhlogo wokwakha
- Idaka lokubumba
- Amabhoksi ahlukahlukeneko ngobujamo nesayizi athethwe ekhaya
- Amabhodlelo weplastiki ahlukahlukeneko nezinye iimumathi zokuhlathulula nokumadanisa umthamo
- Iimbonelo ezihle zeendulungu (iimbholo), iphrizimu enguncamane (ibhoksi), ikhuyubhu, ikurwana, iphiramidi namasilinda. Utitjhere angazenzela yena ngokwakhe lokhu.
- Iinkwere ezinengi zamaplastiki nofana amakhadibhoksi, aboncamane abahlukahlukeneko, iindulungu, aboncantathu abahlukahlukeneko babe namasayizi ahlukahlukeneko boke.
- Imidlalo yeeMbalo isib. iLudo, iinyoka namaleri, amaphazela angenelanako, amaDomino, amaTangremu njll.
- Okuqakathekileko emaGreyidini R neyoku 1:
  - Iindawo lapho kudlalwa khona ngesanda namanzi
  - Iinsetjenziswa zokukhwela , zokudzimelela, zokujinka nokweqayeqa
  - Isitolo sokudlala nezinto okufanele zithengwe ngemali yokudlala
  - Imihlobohlobo yemidlalo efaneleko okufana nokuthi ‘kunani ngaphakathi kwesikwere’?
  - Amabhlogo.

ISIGABA3: UKUNQOPHISANOKUHLATHULULAOKUMUNYETHWEKO

3.1 ISINGENISO

Eemfundweni ezisesiGabeni seFundo ephasi, kuhlanu okumumethwe eendaweni ze-IiMbalo

- Iinomboro, ama-Opharetjhini noBudlelwano
- AmaPhetheni, amaFanktjhini ne-Aljibhra
- ISikhala nobuJamo (Jiyomethri)
- UkuMeda
- UkuPhatha iDatha

Esinye nesinye isigaba sokumumethweko siphulwa sibe ziinhlokwana zeeMbalo, isibonelo kuSikhala nobuJamo Esigabeni Esisisekelo esinye seenhloko bujamo obubusobubili (2-D). ImiQondo namaKghono ayanqotjhiswa ngaphakathi kwesinye nesinye isihloko. Esigabeni sesi-3 seSigaba Esisisekelo se-Mbalo, ISitatimende Somgomo WeKharikhyulamu nokuHlola sinqophisa besihlathulule lokho okufunekako kokumumethwe ziiMbalo.

3.2 ISENZO SOKUNQOPHISA IRAGELO PHAMBILI KILOKHO OKUMUMETHWEKO.

Ithebula yehlathululo efitjhazana yesigaba esithile sokukhula itjengisa isenzo seragelo phambili yeminqopho namakghono netuthuko kusukela eGreyidini R ukuya kweyesi-3. Ithebula yehlathululo efitjhazana yesigaba esithile sokukhula kweGreyidi itjengisa ituthuko yemiqondo namakghono buvundla kiwo womane amathemu wonyaka.

Noma kunjalo, kezinye iinhloko imiqondo namakghono ayafana emagreyidini amabili nofana amathathu alandelanako. Ukuhlathulula okumumethweko kuzakunikela umhlahlandlela wokobana iragelo phambili kufanele yenziwe bunjani ebujamweni obunjalo. Isenzo sokunqophisa okumumethweko kufanele sifundwe ngokuhlanganyela nokuhlukanisa ngeengaba kokumumethweko.

Umbonomazombe omfitjhazana wemininingwana Esigabeni Esisisekelo itjengisa iragelo phambili leengaba ezimumethweko; Iinomboro, ama-Opharetjhini noBudlelwano, amaPhetheni, amaFanktjhini ne-Aljibhra, Isikhala noBujamo (Jiyomethri), Ukumeda no kuPhatha iDatha buvundla emaGreyidini R – 3 njengoba zibekiwe ethebuleni elingenzasi.

UMBONOMAZOMBE WESIGABA ESISISEKELO

1. IINOMBORO, AMA-OPHARETJHINI NOBUDLELWANO

Iragelo phambili leenomboro, ukusebenza nobudlelwano.

- Iragelo phambili eliqakathekileko leenomboro,ukusebenza nobudlelwano elenzeka ngeendlela ezintathu:
  - Ihlelo leenomboro liyanyuka.
  - Ukwethulwa kwemihlobo ehlukeneko yeenomboro.
  - Ukutjhuguluka kwamaqhinga wokubala.
- Njengombana ihlelo leenomboro lokubala linyuka ukufika kugreyidi 3, abafundi kufanele bathome ukuba namaqhinga amanengi afaneleko wokubala.
- Imiraro yobujamo kufanele ibe nokuphenduleka ehlelweni leenomboro egreyidini kunye nekghono lokubala labafundi.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
UKUTHUTHUKA KWEMIQONDO YEENOMBORO: Bala ngeenomboro ngokupheleleko				
1.1 **Ukubala izinto**	**Ukubala izinto eziphathekako** Linganisa bewubale ngokuthembeka okungenani kufika ema-10 izinto zangamalanga	**Ukubala izinto eziphathekako** Linganisa bewubale ngokuthembeka okungenani kufika ema-50 izinto zangamalanga. Ukubala ngeenqhema kuyakhuthazwa	**Ukubala izinto eziphathekako** Linganisa bewubale ngokuthembeka okungenani kufika ema 200 izinto ngamalanga. Ukubala ngeenqhema kuyakhuthazwa.	**Ukubala izinto eziphathekako** Linganisa bewubale ngokuthembeka okungenani kufika e-1000 izinto zangamalanga. Ukubala ngeenqhema kuyakhuthazwa
1.2 **Ukubala uyephambili nemuva**	Ukubala uyephambili nemuva nga: Ku-1 ukusuka kwenye nenye inomboro kusukela keyo-1 ukufika keye-10 Sebenzisa imilolozelo yeenomboro kunye neengoma	Ukubala uyephambili nemuva nga: Ku-1 ukusuka kwenye nenye inomboro hlangana no-1 ne-100 **Ukubala uye phambili nga-** • Li-10 ukusukela kwenye nenye inomboro ebala ngali-10 ehlangana no -1 ne-100 • Ku-5 ukusukele kwenye nenye inomboro ebala nga ku-5 ehlangana no -1 ne-100 • Ku-2 ukusukela kwenye nenye inomboro ebala nga- 2 ehlangana no -1 ne-100	Ukubala uyephambili neemuva nga: • Ku- 1 ukusuka nanyana ngiyiphi inomboro ehlangana ne-0 na 200 • Li- 10 ukusuka nanyana ngiliphi ibuyelelo le- 10 hlangana ne-0 ne 200 • Ku- 5 ukusuka nanyana ngaliphi ibuyelelo laka 5 hlangana ne- 0 ne 200 • Ku- 2 ukusuka nanyana ngaliphi ibuyelelo laka 2 hlangana ne- 0 ne 200 • Ku- 3 ukusuka nanyana ngaliphi ibuyelelo laka 3 hlangana ne- 0 na 200 • Ku- 1 ukusuka nanyana ngaliphi ibuyelelo laka 1 hlangana ne- 0 ne 200	Ukubala uyephambili neemuva nga: • Ku-1 ukusuka nanyana ngiyiphi inomboro ehlangana ne-0 ne-1000 • Li- 10 ukusuka nanyana ngiliphi ibuyelelo le 10 hlangana ne- 0 ne 1000 • Ku- 5 ukusuka nanyana ngaliphi ibuyelelo laka 5 hlangana ne- 0 ne 1000 • Ku- 2 ukusuka nanyana ngaliphi ibuyelelo laka 2 hlangana ne- 0 ne 1000 • Ku- 3 ukusuka nanyana ngaliphi ibuyelelo laka 3 hlangana ne- 0 ne 1000 • Ku- 1 ukusuka nanyana ngaliphi ibuyelelo laka 1 hlangana ne- 0 ne 1000 • Ma 20, 25, 50,100 ukufika okungenani e-1000.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
UKUTHUTHUKA KWEMIQONDO YEENOMBORO: Ukujamisela iinomboro ngokupheleleko				
1.3 **Amatshwayo weenomboro namabizo weenomboro**	**Ukukhumbula, ukubona nokufunda iinomboro** • Khumbula, ubone begodu ufunde amatshwayo wenomboro ukusuka ku-1 ukufika ku-10 • Khumbula, ubone begodu ufunde amagama weenomboro ukusuka ku-1 ukufika ku-10	**Ukukhumbula, ukubona nokufunda iinomboro** • Khumbula, ubone begodu ufunde amatshwayo wenomboro ukusuka ku-1 ukufika e-100 • Tlola amatshwayo wenomboro ukusuka ku-1 ukufika e-20 • Khumbula, ubone begodu ufunde amagama weenomboro kusuka ku-1 ukufika e-10 • Tlola amagama weenomboro ukusuka ku-1 ukufika e-10	**Ukukhumbula, ukubona nokufunda iinomboro** • Khumbula, ubone , ukubona nokufunda amatshwayo wenomboro ukusuka e-0 ukufika e-200 • Ukutlola amatshwayo wenomboro ukusuka e-0 ukufika e-200 • Khumbula, ubone begodu ufunde igama lenomboro ukusuka e-0 ukufika e-100 • Ukutlola amagama weenomboro ukusuka e-0 ukufika e-100	**Ukukhumbula, ukubona nokufunda iinomboro** • Khumbula, ubone begodu ufunde amatshwayo wenomboro ukusuka e-0 ukufika e-1000. • Tlola amatshwayo wenomboro ukusuka ku-1 ukufika e-1000 • Khumbula, ubone begodu ufunde amagama weenomboro ukusuka ku-1 ukufika e-1000. • Tlola amagama weenomboro ukusuka ku-1 ukufika e-1000
UKUTHUTHUKA KWEMIQONDO YEENOMBORO: Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko				
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	**Ukuhlathulula, ukumadanisa nokuhlela ibuthelelo lezinto ukufika e-10** • Ukuhlathulula iinomboro ngokupheleleko ukufika e-10. • Ukumadanisa bonanyana, ekudlwana, ekulu khulu engaphasi, elinganako epheze ilingane, engaphezulu ezimbadlwana kwe-10 ngiyiphi ekulu, encani, hlangana nezimbili izinto ezibuthelelweko. • Ukuhlela ngaphezu kwezimbili zebuthelelo lezinto ukusuka kencani ukuya kekulu ukufika e-10.	**Ukuhlathulula, ukumadanisa, nokuhlela izinto ukufika e-20** • Ukuhlathulula nokumadanisa izinto ezibuthelelweko ukuya ngobunengi, okungenani, kufana. • Ukuhlathulula nokumadanisa izinto ezibuthelelweko ukusuka kubunengi ukuya okulingeneko kunye nokusuka kokulingene uye kokunengi.		

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
UKUTHUTHUKA KWEMIQONDO YEENOMBORO: Ukujamisela iinomboro ngokupheleleko				
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**		**Ukuhlathulula, ukumadanisa and nokuhlela iinomboro ukufika e-20** • Ukuhlathulula nokumadanisa iinomboro ezipheleleko ngokusebenzisa okuncani kuna, okukhulu kuna, okunengi kuna, okungaphasi kuna, okulinganako. • Ukuhlathulula bewuhlele iinomboro kusuka ngencani-khulu ukufika kekulukulu nokusuka kekulukulu kufika kencani-khulu	**Ukuhlathulula, ukumadanisa and nokuhlela iinomboro ukufika e- 99** • Ukuhlathulula nokumadanisa iinomboro ezipheleleko ukufika e-99 ngokusebenzisa okuncani kuna, okukhulu kuna, okunengi kuna, okungaphasi kuna, okulinganako. • Ukuhlathulula bewuhlele iinomboro ezipheleleko ukufika e-99 kusuka kencani-khulu ukufika kekulukulu nokusuka kekulukulu kufika kencani-khulu	**Ukuhlathulula, ukumadanisa nokuhlela iinomboro ukufika e-999.** • Ukuhlathulula nokumadanisa iinomboro ezipheleleko ukufika e- 999 ngokusebenzisa okuncani kuna, okukhulu kuna, okunengi kuna, okungaphasi kuna, okulinganako. • Ukuhlathulula bewuhlele iinomboro ezipheleleko ukufika e-999 kusuka kencani-khulu ukufika kekulukulu nokusuka kekulukulu kufika kencani-khulu
	Sebenzisa inomborosikhundla ukutjengisa ukulandelana, indawo namkha ubujamo • Thoma ilemuko leenomborosikhundla Isib. Yokuthoma, yesibili, yesithathu ukufika keyesithandathu neyokugcina.	**Sebenzisa inomborosikhundla ukutjengisa ukulandelana, indawo namkha ubujamo** • Ukubeka izinto ngokulandelana kusukela keyokuthoma ukufika keyetjhumi namkha keyokuthoma ukuya keyokugcina, Isib. Yokuthoma, yesibili, yesithathu..... yetjhumi	**Sebenzisa inomborosikhundla ukutjengisa ukulandelana, indawo namkha ubujamo** • Ukubeka izinto ngokulandelana kusukela keyokuthoma ukufika keyamatjhumi amabili namkha keyokuthoma ukuya keyokugcina, Isib. Yokuthoma, yesibili, yesithathu.....Yamatjhumi amabili.	**Sebenzisa inomborosikhundla ukutjengisa ukulandelana, indawo namkha ubujamo** • Ukusebenzisa , ukufunda nokutlola iinomborosikhundla kufaka hlangana nezirhunyeziweko (1st-koku1, 2nd-kwesi2, 3rd- kwesi3 ukufika kokwama 31st)
UKUTHUTHUKA KWEMIQONDO YEENOMBORO:Ubukhulu bedijithi				
1.5 **Ubukhulu bedijithi**		**Thoma ukulemuka ubukhulu bedijithi okungenani iinomboro zamadijithi ama-2 ukufika e-20** • Ukuphula iinomboro zamadijithi ama-2 ukuya ngesibuyabuyelelo se-10 nakunye/ namayunidi.	**Thoma ukulemuka ubukhulu bedijithi okungenani iinomboro zamadijithi ama-2 ukufika e-99** • Ukuphula iinomboro zamadijithi ama-2 ukuya ngesibuyabuyelelo se-10 nakunye/namayunidi. • Ukufanisa nokutjho ubukhulu benye nenye idijithi.	**Ukulemuka ubukhulu bedijithi okungenani iinomboro zamadijithi ama-3 ukufika e-999** • Ukuphula iinomboro zamadijithi ama-3 ukufika e-999 ukuya ngesibuyabuyelelo se-100, ngesibuyabuyelelo se-10 nakunye/ namayunidi. • Ukufanisa nokutjho ubukhulu benye nenye idijithi.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
UKURARULULA IMIRARO ESEBUJAMENI OBUTJHAPHUKILEKO				
1.6 **Amaqhinga wokurarulula imiraro**	Sebenzisa amathekhiniki alandelako ukufika e-10. • Iinsetjenziswa eziphathekako Isib. Izinto zokubala. • Ileri yeenomboro ebonakalako.	Sebenzisa amathekhiniki alandelako nawurarulula imiraro uhlathulule neensombululo: • Ama-apharethasi aphathekako njengezinto zokubala • Iinthombe zokugwala iimbalo zendatjhana • Ukuphula nokuphula iinomboro • Ukubuyelela nokuqunta phakathi • Iinambalayini	Sebenzisa amathekhiniki alandelako lokha urarulula imiraro bekuhlathululwe iinsombululo zemiraro: • Imigwalo nofana amapharethasi aphathekako isib. Izinto zokubala • Ukwakha nokuphula kweenomboro • Ukubuyelela kabili nokuqunta phakathi • Inambalayini	Sebenzisa amathekhiniki alandelako lokha urarulula imiraro bekuhlathululwe iinsombululo zemiraro: • Ukwakha nokuphula kweenomboro • Ukubuyelela kabili nokuqunta phakathi • Inambalayini • Tlola ngamatjhumi.
1.7 **Ukuhlanganisa nokukhupha**	Rarulula iimbalo zamagama (Indaba zokuhlanganisa) ezisebujameni bewuhlathulule iinsombululo zakho zemiraro ezifaka ukuhlanganisa nokukhupha ngempendulo ukufika e-10.	Rarulula iimbalo zamagama ezisebujameni bewuhlathulule iinsombululo zakho zemiraro, faka ukuhlanganisa, ukukhupha nempendulo ukufika e-20.	Ukusombulula imiraro yeembalo zamagama ezisebujameni abe ahlathululo iinsombululo okungezakhe umraro ofakahlangana ukuhlanganisa nokukhupha okuneempendulo ezifikelela e-99.	Ukusombulula imiraro yeembalo zamagama ezisebujameni abe ahlathululo iinsombululo okungezakhe umraro ofakahlangana ukuhlanganisa nokukhupha okuneempendulo ezifikelela e-999.
1.8 **Ukuhlanganisa okubuyelelweko kurholela ekubuyabuyeleleni**		Rarulula iimbalo zamagama ezisebujameni bewuhlathulule iinsombululo zakho zemiraro, faka ukuhlanganisa okubuyelelko nempendulo ukufiika ku-20	Ukusombulula imiraro yeembalo zamagama ezisebujameni abe ahlathululo iinsombululo okungezakhe, umraro ofakahlangana ukuhlanganisa okubuyelelweko okukhokhela ekubuyeleleni okunomphumelo ofikelela e-50.	Ukusombulula imiraro yeembalo zamagama ezisebujameni abe ahlathululo iinsombululo okungezakhe umraro ofakahlangana ukubuyelela okuneempendulo ezifikelela e-100.
1.9 **Ukubuthelela nokwabelana okurholela ekuhlukaniseni.**	Rarulula iimbalo zamagama ezisebujameni bewuhlathulule iinsombululo zakho ufake ukwabelana ngokulingana nokubuthelela kwenomboro ezizeleko ukufika e-10 begodu nangempendulo ezifaka hlangana okuseleko.	Rarulula iimbalo zamagama ezisebujameni bewuhlathulule iinsombululo zakho ufake ukwabelana ngokulingana nokubuthelela kwenomboro ezizeleko ukufika e-20 begodu nangempendulo ezifaka hlangana okuseleko.	Ukusombulula imiraro yeembalo zamagama ezisebujameni abe ahlathululo iinsombululo okungezakhe, umraro efakahlangana ukwabelana ngokulinganako nangokuhlela ngeenqhema ukufikelela e-50 kumphumela ozokufakahlangana neensalela.	Ukusombulula nokuhlathulula iinsombululo zemiraro eyenzekako efakahalangana ukwabelana ngokulinganako nokuhlela ngeenqhema ukufikela e-100 kumphumela ozokufakahlangana neensalela.
1.10 **Ukwabelana okurholela emafraktjhinini**			Ukusombulula nokuhlathulula iinsombululo zemiraro eyenzekako efakahlangana ukwabelana ngokulinganako ekurholela eensombululweni ezifaka amafraktjhini ahlobanako nangahlobaniko.	Ukusombulula nokuhlathulula iinsombululo zemiraro eyenzekako efakahlangana ukwabelana ngokulinganako ekurholela eensombululweni ezifaka amafraktjhini ahlobanako nangahlobaniko.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
UKURARULULA IMIRARO ESEBUJAMENI OBUTJHAPHUKILEKO				
1.11 **Imali**	Thoma ukulemuka amasende nemali yamaphepha yeSewula Afrika.	• Khumbula bewufanise imali eziinhlavu yeSewula Afrika: • (5c, 10c, 20, 50c, R1, R2; R5) kunye nemali emaphepha i-R10 ne R20 • Ukurarulula imiraro efaka hlangana amanani wemali netjhentjii yama R20 neyamasende ukufika ema-20c	• Ukukhumbula nokufanisa imali yeSewula Afrika eziinhlamvu 5c, 10c, 20c, 50c, R1, R2, R5, nemali emaphepha R10, R20, R50 • Ukurarulula imiraro yemali efakahlangana inani netjhentjhi kufikela emarandeni ama-R99 namasende ama- 90c.	• Ukukhumbula nokufanisa imali yoke yeSewula Afrika eziinhlamvu nemali emaphepha • Ukurarulula imiraro yemali efakahlangana amanani netjhentjhi yamaranda namasende • Tjhugulula amarandi namasende
UKUBALA OKUSEBUJAMENI OBUTJHAPHULUKILEKO				
1.12 **Amathekhiniki** **(iindlela namaqhinga)**		Sebenzisa amathekhiniki alandelayo nawubalako • Ama-apharethasi aphathekako njengezinto zokubala • Gwala iinthombe • Ukwakhabewuphadhle iinomboro • Ukubuyelela nkuqunta phakathi • Iinamba layini	Sebenzisa amaqhinga alandelako lokhana nakubalwako. • Imidwebo nofana amapharethasi aphathekako isib. Izinto zokubala • Ukwakha nokuphula kweenomboro • Ukubuyelela kabili nokuqunta phakathi • Inambalayini	Sebenzisa amaqhinga alandelako lokhana nakubalwako. • Ukwakha nokuphula kweenomboro • Ukubuyelela kabili nokuqunta phakathi • Inambalayini • Tlola ngamatjhumi.
1.13 **Ukuhlanganisa nokukhupha**	Ukusombulula imiraro yokuhlanganisa nokukhupha etjhiwo ngomlomo ngeensombululo ukufika e-10.	• Ukuhlanganisa ukufika e-20 • Ukukhupha ema- 20 • Sebenzisa amatshwayo afaneleko (+, –, =, □) • Ukuphrakthisa inambabhondi ukufika e-10	• Ukuhlanganisa ukufikela e-99 • Ukukhupha ema-99 • Ukusebenzisa amatshwayo afaneleko (+, –, =, □) • Ukuphrakthisa inambabhondi ukufika e-20	• Ukuhlanganisa ukufikela ku-999 • Ukukhupha ema-999 • Ukusebenzisa amatshwayo afaneleko (+, –, =, □) • Ukuphrakthisa inambabhondi ukufika e-30
1.14 **Ukuhlanganisa okubuyelelweko kurholela ekubuyabuyeleleni**		• Hlanganisa inomboro efanako ngokubuyelela ukufika e-20 • Sebenzisa amatshwayo afaneleko (+, =, □)	• Buyabuyelela iinomboro ukusuka keyo-1 ukufika e-10 ngaku -2, 5, 3 neye- 4 ukwenza ama-50. • Ukusebenzisa amatshwayo afaneleko (+, x, =, □)	• Buyabuyelela iinomboro ngeye 2, 3, 4,5,10 ukuhlanganisa i-100. • Ukusebenzisa amatshwayo afaneleko (x, □)
1.15 **Ukuhlukanisa**				• Hlukanisa iinomboro ukufika e-99 ngeye-2, 3, 4,5,10. • Ukusebenzisa amatshwayo afaneleko (÷, =, □)

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
UKUBALA OKUSEBUJAMENI OBUTJHAPHULUKILEKO				
1.16 **Iimbalo zehloko**	**Umqondo nomboro: Irherho 10** Umsetjenzana ngamunye uthoma ngeembalo zehloko: • Ukubala izinto zangamalanga • Ukubala uyephambili nemuva • Iinomboro sikhundla • Wahla izandla amahlandlha amanengi/ambalwa • Ngimaphi amahlandlha wokuwahla amanengi khulu/ncani khulu/ nengi/ ncanyana • Ngiyiphi inomboro eza ngaphambili/ngemuva /hlangana	**Umqondonomboro: Irherho ukufika e-20** • Nikela inomboro ngaphambili namkha ngemuva kwenye inomboro. • Hlela isede enikelweko yeenomboro ezikhethiweko • Madanisa iinomboro ukufika e-20 bewutjho nokobana ngiyiphi keyo-1 neye-2 ekulu namkha encani.	**Umqondonomboro: Irherho ukufika e-99** • Ukurhemisa iinomboro ezikhethiweko ngokwesede enikeliweko. • Ukumadanisa iinomboro ukufika e-99 bewutjho bonyana ngiyiphi enengi nofana encani nga: 1, 2, 3, 4, 5, begodu nangali-10	**Umqondonomboro: Irherho ukufika e-1000** • Ukurhemisa iinomboro ezikhethiweko ngokwesede enikeliweko. • Ukuqanathisa iinomboro ukufika e-1000 nokutjho bona ngiyiphi ekulu namkha encani nga: 1, 2,3,4,5 begodu nangali 10.
		Ukukhumbula msinyana: • Ukukhumbula amaphuzu wamambala ngokuhlanganisa nokukhupha ukufika e-10	**Ukukhumbula msinyana:** • Ukukhumbula amaphuzu wamambala ngokuhlanganisa nokukhupha ukufika e-20 • Hlanganisa nofana ukhuphe iimbuyabuyeleli ze-10 ukusukela e-0 ukuya e-100	**Ukukhumbula msinyana:** • Ukukhumbula amaphuzu wamambala ngokuhlanganisa nokukhupha ukufika e-20 • Hlanganisa nofana ukhuphe iimbuyabuyeleli ze-10 ukusukela e-0 ukuya e-100 • Ukubuyelela kwamambala kwe: - Ithebula 2 wokubuyabuyelela aneempendulo ukufika e-20 - 10 amathebula wokubuyabuyelela aneempendulo ukufika e-100 • Amaphuzu weenomboro wokuhlukanisa: - ukufika e-20 ezihlukaniseka ngo ku 2 - ukufika e-100 ezihlukaniseka nge-10

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
UKUBALA OKUSEBUJAMENI OBUTJHAPHULUKILEKO				
1.16 **Iimbalo zehloko**		**Amaqhinga wokubala** Ukusebenzisa amaqhinga wokubala ukuhlanganisa nokukhupha ngekghono elifaneleko: • Beka inomboro ekulu maqangi ukuze ubale uyephambili nofana ubale uye emuva • Inambalayini. • Ukubuyelela nokuhlukanisa • Ukwakha nokuphula	**Amaqhinga wokubala** Ukusebenzisa amaqhinga wokubala ukuhlanganisa nokukhupha ngekghono elifaneleko: • Beka inomboro ekulu maqangi ukuze ubale uyephambili nofana ubale uye emuva • Inambalayini. • Ukubuyelela nokuhlukanisa • Ukwakha nokuphula • Ukusebenzisa ubudlelwana obuphakathi okuhlanganisa nokukhupha.	**Amaqhinga wokubala** Ukusebenzisa amaqhinga wokubala alandelako: • Beka inomboro ekulu maqangi ukuze ubale uyephambili nofana ubale uye emuva • Inambalayini. • Ukubuyelela nokuhlukanisa • Ukwakha nokuphula • Ukusebenzisa ubudlelwana obuphakathi okuhlanganisa nokukhupha. • Ukusebenzisa ubudlelwana hlangana bokubuyelela nokuhlukanisa.
1.17 **Amafraktjhini.**			• Sebenzisa bewutjho amafraktjhini wohlavu olulodwa ajayelekileko okufakahlangana neengcezu, amakota, isithathu begodu nesihlanu njll • Ukubona amafraktjhini ebujameni obuyidayagremu • Tlola amafraktjhini njengecezu elilodwa, iinthathu ezimbili	• Sebenzisa bewutjho amafraktjhini wohlavu olulodwa nalayo angena hlavu olulodwa ajayelekileko okufakahlangana neengcezu, amakota, isithathu begodu nesihlanu njll • Ukubona amafraktjhini ebujameni obuyidayagremu • Thoma ukulemuka bona iinquntu ezimbili namkha iinthathu ezintathu zenza yinye epheleleko nokuthi isiquntu esisodwa namakota amabili ziyalingana. • Tlola amafraktjhini njengesiquntu esisodwa, iinthathu ezimbili

UMBONOMAZOMBE WESIGABA ESISISEKELO
2. AMAPHETHENI, AMAFANKTJHINI NE-ALJIBHRA

Iragelo phambili lamaPhetheni, amaFanktjhini ne-Aljibhra.

- KumaPhetheni, amaFanktjhini ne-Aljibhra abafundi banikelwa amathuba wokuthi:
  - Baqedelele bebangezelele amaphetheni ajanyiselwe ngeendlela ezihlukeneko.
  - Bafanise bebahlathulule amaphetheni.
- Ukuhlathulula amaphetheni kuleka isisekelo kubafundi besigaba esiphakathi ukuthi bahlathulule imithetho yamaphetheni. Kwamva lokhu kuba ngendlela ehlelekileko emsebenzini we-aljibra esigabeni esiphakathi.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
2.1 **Amaphetheni weJiyomethri**	**Ukukopa nokungezelela.** Ukukopa nokungezelela amaphetheni alula ngokusebenzisa izinto ezibonakalako kunye nemigwalo (Isib. ngokusebenzisa imibala nobujamo)	**Ukukopa, ungezelele bewuhlathulule** Ukukopa, ungezelele bewuhlathulule ngamagama • Amaphetheni alula enziwe ngezinto ezibonakalako • Amaphetheni alula enziwe ngemigwalo yemida, ubujamo nofana izinto. **Yenza bewuhlathulule amaphetheni wakho** • Ngezinto ezibonakalako • Ngokugwala imida, ubujamo nofana izinto **Amaphetheni asizombelezileko** **Ukukhomba, ukuhlathulula ngamagama nokukopa amaphetheni weJiyomethri** • Ngokwemvelo • Kusukela epilweni yangamalanga yesimodeni, • Asuka kwilifa lamasiko wethu	**Ukukopa, ungezelele bewuhlathulule** Ukukopa, ungezelele nokuhlathulula ngamagama • Amaphetheni arareneko eyenziwe ngezinto eziphathekako • Amaphetheni arareneko enziwa ngokugwala imida, ubujamo nofana izinto. **Yenza bewuhlathulule amaphetheni okungewakhe** • Ngezinto eziphathekako • Ngokugwala imida, ubujamo nofana izinto **Amaphetheni asizombelezileko** **Ukukhomba, ukuhlathulula ngamagama nokukopa amaphetheni weJiyomethri** • Ngokwemvelo • Kusukela epilweni yangamalanga yesimodeni, • Asuka kwilifa lamasiko wethu	**Ukukopa, ungezelele bewuhlathulule** Ukukopa, ungezelele nokuhlathulula ngamagama • Amaphetheni arareneko eyenziwe ngezinto eziphathekako • Amaphetheni arareneko enziwa ngokugwala imida, ubujamo nofana izinto. **Yenza bewuhlathulule amaphetheni wakho** • Ngezinto ezibonakalako • Ngokugwala imida, ubujamo nofana izinto **Amaphetheni asizombelezileko** **Ukukhomba, ukuhlathulula ngamagama nokukopa amaphetheni weJiyomethri** • Ngokwemvelo • Kusukela epilweni yangamalanga yesimodeni, • Asuka kwilifa lamasiko wethu
2.2 **Amaphetheni weenomboro.**		**Ukukopa, ukungezelela nokuhlathulula** Ukukopa, ungezelele bewuhlathulule ukulandelanisa kwenomboro elula ukufika e-100. **Ukutlama nokuhlathulula amaphetheni okungewakhe**	**Ukukopa, ukwandisa nokuhlathulula.** Ukukopa, ukwandisa nokuhlathulula iinomboro ezilula ezilamanako ukufika okungenani e-200. **Ukutlama nokuhlathulula amaphetheni okungewakhe**	**Ukukopa, ukwandisa nokuhlathulula.** Ukukopa, ukwandisa nokuhlathulula iinomboro ezilula ezilamanako ukufika okungenani e-999 **Ukutlama nokuhlathulula amaphetheni okungewakhe**

UMBONOMAZOMBE WESIGABA ESISISEKELO

3. ISIKHALA NOBUJAMO (IJIYOMETRHI)

Iragelo phambili lesikhala nobujamo.

Iragelo phambili eliqakathekileko lesikhala nobujamo liphumelele ngoku:

- Nqophisa emikghweni emitjha nematshwayeni wobujamo nezinto egreyidini enye nenye begodu;
- Tjhida ekufundeni ilimi lobujamo nokumadanisa imibono ehlukeneko entweni eyodwa ekufundeni nekulandeleni iinkombatjhuba ezisemebheni engakahleleki.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
3.1 **Ubujamo, ukujayeza nokubukela**	**Ilimi lobujamo** Hlathulula ubujamo bento nokuhlobana kwenye nenye isib. phezu-kwe, phambi-kwe, ngemuva-kwe, ngesinceleni, ngesidleni, phezulu, phasi, hlanu-kwe.	**Ilimi lobujamo** Hlathulula ubujamo bento nokuhlobana kwenye nenye isib. phezu-kwe, phambi-kwe, ngemuva-kwe, ngesinceleni, ngesidleni, phezulu, phasi, hlanu-kwe.	**Ilimi lobujamo** Hlathulula ubujamo bento nokuhlobana kwenye nenye isib. phezu-kwe, phambi-kwe, ngemuva-kwe, ngesinceleni, ngesidleni, phezulu, phasi, hlanu-kwe.	
	Ubujamo nekombatjhuba • Ukulandela ikombatjhuba yokukhambakhamba ngetlasini	**Ubujamo nokubukela** • Ukukhumbula nokumadanisa imibono ehlukeneko yezinto ezifanako zangamalanga. **Ubujamo nekombatjhuba** • Ukulandela ikombatjhuba yokukhambakhamba ngeklasini • Ukulandela umlayezo ubeka into ngokuhlobana kwenye nenye isib. beka ipensela ngemuva kwebhoksi.	**Ubujamo nokubukela** • Ukukhumbula nokumadanisa imibono ehlukeneko yezinto ezifanako zangamalanga. **Ubujamo nekombatjhuba** • Landela iinlayelo ukukhambakhamba ngetlasini.	**Ubujamo nokubukela** • Ukukhumbula nokumadanisa imibono ehlukeneko yezinto ezifanako zangamalanga • Yitjho into esetjenziswa ngamalanga lokha nawutjengiswa ihlangothi layo elingakajayeleki • Funda, hlathulula begodu ugwale amamebhe angasisemthethweni, nofana ukubona ingaphezulu lebuthelelo lezinto. • Thola izinto emimebheni **Ubujamo nekombatjhuba** • Landela iinlayelo ukwenzela ukukhambakhamba ngetlasini, begodu nesikolweni. • Nikela iinlayelo ukwenzela ukukhambakhamba. • Landela iinlayeelo kusuka kwenye indawo ukuya kwenye emebheni ongasingowomthetho.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
3.2 **Izinto ezibobusontathu** **(3-D)**	**Irherho lezinto** Ukubona nokutjho izinto ezibobusontathu (3-D) ezingetlasini neenthombeni • Ubujamo bebhola • Ubujamo bebhoksi **Amatshwayo wezinto** Hlathulula, hlukanisa ngemihlobo, umadanise izinto ezibusontathu (3-D) ngokuya: • ngobukhulu • ngombala • ngezinto ezigedekako • ngezinto ezitjhelelako **Imisebenzi enqotjhiweko** • Ukusebenzisa izinto ze 3-D ezifana namabhlogo wokwakha, izinto ezibuyelelweko njll. Ukwakha / ukutlama izinto .Isib umbhotjhongo, amabhlorho njll.	**Irherho lezinto** Ukubona nokutjho izinto ezibobusontathu (3-D) ezingetlasini neenthombeni • Ubujamo bebhola (indulungu) • Ubujamo bebhoksi (iphrizimu) **Amatshwayo wezinto** Hlathulula, hlukanisa ngemihlobo, umadanise izinto ezibusontathu (3-D) ngokuya: • ngobukhulu • ngombala • ngezinto ezigedekako • ngezinto ezitjhelelako **Imisebenzi enqotjhiweko** • Ukuyelela nokwakha izinto ze 3-D ngokusebenzisa iinsetjenziswa eziphathekako ezifana amabhlogo wokwakha, izinto ezibuyelelweko, iinsetjenziswa zokwakha.	**Irherho lezinto** Ukubona nokutjho izinto ezibobusontathu (3-D) ezingetlasini neenthombeni • Ubujamo bebhola (indulungu) • Ubujamo bebhoksi (iphrizimu) • Isilinda **Amatshwayo wezinto** Hlathulula, hlukanisa ngemihlobo, umadanise izinto ezibusontathu (3-D) ngokuya: • ngobukhulu / isayizi • ngezinto ezigedekako • ngezinto ezitjhelelako **Imisebenzi enqotjhiweko** • Ukuyelela nokwakha izinto ze 3-D ngokusebenzisa iinsetjenziswa eziphathekako ezifana namabumbeko we 2-D asikiweko, amabhlogo wokwakha, izinto ezibuyelelweko, iinsetjenziswa zokwakha, nezinye izinto zeJiyomethri ezi 3-D.	**Irherho lezinto** Ukubona nokutjho izinto ezibobusontathu (3-D) ezingetlasini neenthombeni • Ubujamo bebhola (indulungu) • Ubujamo bebhoksi (iphrizimu) • Isilinda • Amaphiramidi. • Amakhowuni. **Amatshwayo wezinto** Ukuhlathulula, ukubeka ngeengaba nokumadanisa izinto ezibobusontathu (3-D) ngokuya nga: • Mabumbeko abobusobubili (2-D) lawo enza ubuso bezinto ezibobusontathu (3-D) • Mabala aparaleleko nofana ajikako. **Imisebenzi enqotjhiweko.** • Ukuyelela nokwakha izinto ze 3-D ngokusebenzisa iinsetjenziswa eziphathekako ezifana namabumbeko we 2-D asikiweko, idaka, iingojwana zamazinyo, amathunjana wokusela, nezinye izinto zeJiyomethri ezi 3-D.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula, ukubona begodu nokutjho ubujamo obubuso bubili obungetlasini begodu neenthombeni, okufaka hlangana:** • Amatshwayo wabafundi. • Igama letlasi	**Iirhemo lamajamo** Yazi bewutjho ubujamo obubusobubili (2-D) • indulungu • uncantathu • isikwere **Amatshwayo wamajamo** Ukuhlathulula, ukuhlukanisa ngemihlobo, nokumadanisa amajamo abobusobubili (2-D) ngokuya ngo/nga: • bukhulu • mbala • amahlangothi athwi/anqophileko • amahlangothi andulungu/arondo	**Ubujamo obuhlukeneko.** Yazi bewutjho ubujamo obubusobubili (2-D) • Indulungu • Uncantathu • Isikwere • Uncamane. **Amatshwayo wamajamo** Ukuhlathulula, ukuhlukanisa ngemihlobo nokumadanisa amajamo abobusobubili (2-D) ngokuya ngo /nge/ nga: • bukhulu • jamo • amahlangothi athwi/anqophileko • amahlangothi andulungu/arondo.	**Ubujamo obuhlukeneko.** Yazi bewutjho ubujamo obubusobubili (2-D) • Indulungu • Uncantathu • Isikwere • Uncamane. **Amatshwayo wamajamo** Ukuhlathulula, ukuhlukanisa ngemihlobo nokumadanisa amajamo abobusobubili (2-D) ngokuya nge/nga: • jamo • amahlangothi athwi/anqophileko • amahlangothi andulungu/arondo **Gwala amajamo** • Iindulungu • Aboncantathu • Iinkwere • Aboncamane
3.4 **Isimethri**	**Isimethri** • Yazi isimethri ngowakho umzimba.	**Isimethri** • Yazi isimethri ngowakho umzimba. • Yazi bewuthale umuda wesimethri kumajamo abobusobubili (2-D) weJiyomethri nalawo angasiwo weJiyomethri.	**Isimethri** • Yazi bewuthale umuda wesimethri kumajamo abobusobubili (2-D) weJiyomethri nalawo angasiwo weJiyomethri.	**Isimethri** • Yazi bewuthale umuda wesimethri kumajamo abobusobubili (2-D) weJiyomethri • nalawo angasiwo weJiyomethri. • Ukukhetha umuda wesimethri ngokubhinca iphepha nokuveza isiboniso.

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4. UKUMEDA

Iragelo phambili lokuMeda

- Iragelo phambili lokumeda ukweqela kamanye amagreyidi kuphumelele ngokungenisa lokhu:
  - iindlela ezitja zokumeda;
  - amathulusi amatjha wokumeda,ukuthoma ngamathulusi angakahleleki ukuya kunsetjenziswa zeemedo ezihlelekileko zegreyidi 2 neye 3;
  - amayunidi amatjha wokumeda, khulukhulu kugreyidi ye 2 neye 3.
- Ukubala nokurarulula imiraro yokumeda kufanele kuveze ilemuko lemisebenzi yeenomboro esele yenziwe.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
4.1 **Isikhathi**	**Ukudlula kwesikhathi** Kukhuluma ngokudlula kwesikhathi • Khuluma ngezinto ezenzeka emini nezinto ezenzeka ebusuku. • Abafundi balandelanisa izehlakalo ezenzeke emini. • Ukuhlela izehlakalo ezenzeka njalo emaphilweni wabo.	**Ukudlula kwesikhathi** Kukhuluma ngokudlula kwesikhathi • Hlela izehlakalo eziqhelekileko ezisuke epilweni yabo. • Ukumadanisa ubude besikhathi kusetjenziswa ilimi isib.iskhathi eside, isikhathi esifitjhani, masinyana, kabuthaka. • Ukulandelanisa izehlakalo kusetjenziswa ilimu elifaka nokuthi izolo, namhlanje, kusasa		

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
4.1 **Isikhathi**		**Ukutjho isikhathi** • Ukuhlathulula nangabe kwenzeka into kusetjenziswa ilimi isib. Ekuseni, ngemuva kwedina, ebusuku, ekuseni khlu, ngemuva kwesikhathi. • Ukutjho nokulandelanisa amalanga weveke, neenyanga zonyaka. • Ukubeka amalanga wamabeletho ekhalendeni	**Ukutjho isikhathi** • Ukutjho nokulandelanisa amalanga weveke ne linyanga zonyaka. • Ukubeka ekhalendeni amalanga wamabeletho, imigidingo yekolo, amalanga wamaholideyi, izehlakalo zomlando, izehlakalo zesikolo. • Ukutjho isikhathi ngama-iri ali-12, isigamu se-iri nekota ye-iri esisewatjhini ye-analogo. **Bala ubude besikhathi nokudlula kwesikhathi** • Sebenzisa amakhalenda ukubala nokuhlathulula ubude besikhathi ukuya nga: - malanga - mveke. • Sebenzisa iwatjhi ukubala ubude besikhathi ukuya: - ngama-iri - nge siquntu se-iri.	**Ukutjho isikhathi** • Funda amalanga ekhalendeni. • Ukubeka ekhalendeni amalanga wamabeletho, imigidingo yekolo, amalanga wamaholideyi, izehlakalo zomlando, izehlakalo zesikolo. • Ukutjho isikhathi sama iri ali-12 - ngama-iri, - isigamu se-iri - ikota ye-iri - ngamaminithi asewatjhini ye-analogo newatjhi yedijithi nezinye iintlhabagelo zamadijithi ezitjengisa isikhathi: isib. Umaliledinini. **Bala ubude besikhathi nokudlula kwesikhathi** • Sebenzisa amakhalenda ukubala nokuhlathulula ubude besikhathi ukuya nga: - malanga - mveke - nyanga. • Ukutjhugululwa hlangana namalanga nemveke • Ukutjhugululwa hlangana kwemveke nenyanga • Sebenzisa amawatjhi ukubala ubude besikhathi ukuya: - ngama-iri - linquntu ze-iri. - Amakota we-iri.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
4.2 **Ubude**	**Ukumeda okungakahleleki** • Ukumadanisa nokuhlela ubude, ukuphakama nofana ububanzi bezinto ezimbili nofana ezinengi ngokuzibeka enye eqadi kwenye. Ukusebenzisa ilimu ukukhuluma nokufanisa Isib.ubude, ubufitjhani, omude nobubanzi.	**Ukumeda okungakahleleki** • Ukumadanisa nokuhlela ubude, ukuphakama nofana ububanzi bezinto ezimbili nofana ezinengi ngokuzibeka enye eqadi kwenye. Ukusebenzisa ilimu ukukhuluma nokufanisa Isib.ubude, ubufitjhani, omude nobubanzi. • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela bewurekhode ubude usebenzise iimedo ezisezingeni elingakahleleki isib. Ubude besandla, igadango, ubude bepensela, izinto zokubala. • Hlathulula ubude bezinto ngokubala nokutjho ubude kumayunidi angakahleleki.	**Ukumeda okungakahleleki** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela bewurekhode ubude usebenzise iimedo ezisezingeni elingakahleleki isib. Ubude besandla, igadango, ubude bepensela, izinto zokubala. • Hlathulula ubude bezinto ngokubala nokutjho ubude kumayunidi angakahleleki. **Ukwethula ukumeda okuhlelekileko.** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela nokurekhoda ubude ngokusebenzisa amamitha (kungaba iingodo zamamitha namkha iintambo zobude bamamithara) njenge yunidi yobude obusezingeni.	**Ukumeda okungakahleleki** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela nokurekhoda ubude ngokusebenzisa iimedo ezisezingeni elingakahleleki Isib. Izandla, igadango, ubude bepensela, izinto zokubala. • Hlathulula ubude bezinto ngokubala nokutjho bona mangaki amayunidi wobude angakahleleki abekakhona. **Ukwethula ukumeda okuhlelekileko.** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela nokurekhoda ubude ngokusebenzisa amamitha (kungaba iingodo zamamitha namkha iintambo zobude bamamithara) njenge yunidi yobude obusezingeni. • Ukulinganisa nokumeda ubude ngamasentimitha ngokusebenzisa irula. (Ukutjhugululwa hlangana namamitha namasentimitha akufuneki).
4.3 **Ubungako/ ubudisi**	**Ukulinganisa okungakahleleki** • Ukumadanisa nokuhlela ubudisi bezinto ezimbili namkha ngaphezulu ngokuzizwa namkha ngokusebenzisa isikala esimedako. • Ukusebenzisa ilimi ukukhuluma nokumadanisa Isib. Umkhanyo, budisi, lula, budisi khulu.	**Ukulinganisa okungakahleleki** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela, bekurekhodwe ubudisi, kusetjenziswa isikala sokudzimelela nesilinganiso esingakahleleki isib. Amabhlogo, iintina njll. • Hlathulula ubudisi bezinto ngokubala nokutjho ubudisi bamayunidi angakahleleki. • Ukusebenzisa ilimi ukukhuluma ngokumadanisa isib.elula, ebudisi, elula-khulu, ebudisi-khulu.	**Ukulinganisa okungakahleleki** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela, bekurekhodwe ubudisi, kusetjenziswa isikala sokudzimelela nesilinganiso esingakahleleki isib. amabhlogo,iintina • Hlathulula ubudisi bezinto ngokubala nokutjho ubudisi bamayunidi angakahleleki. • Ukusebenzisa ilimi ukukhuluma ngokumadanisa isib. elula,ebudisi,elula-khulu,ebudisi-khulu	**kulinganisa okungakahleleki** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela, bekurekhodwe ubudisi, kusetjenziswa isikala sokudzimelela nesilinganiso esingakahleleki isib. amabhlogo,iintina • Hlathulula ubudisi bezinto ngokubala nokutjho ubudisi bamayunidi angakahleleki. • Ukusebenzisa ilimi ukukhuluma ngokumadanisa isib.elula,ebudisi,elula-khulu,ebudisi-khulu

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
4.3 **Ubungako/ ubudisi**			**Ukwethula ukulinganisa okuhlelekileko** • Ukumadanisa, ukuhlela nokurekhoda ubudisi beempakana zezinto zerhwebo lezo ubudisi bazo bubalwekwaphela ngamakiligremu Isib. Amakhilogremu ama-2 wereyisi nekilogremu e-1 yeflowuru. • Balinganise ubudisi babo ngamakhilogremu ngokusebenzisa isikala sangendlini yokuhlambela.	**Ukwethula ukulinganisa okuhlelekileko** • Ukumadanisa, ukuhlela nokurekhoda ubudisi beempakana zezinto zerhwebo lezo ubudisi bazo bubalwe ngamakhilogremu Isib. - Amakhilogremu ama-2 wereyisi nekhilogremu e-1 yeflowuru. - Ngamagremu Isib amagremu ama-500 wetshwayi. • Balinganise ubudisi babo ngamakhilogremu ngokusebenzisa isikala sangendlini yokuhlambela. (Ukutjhugululwa hlangana namagremu namakhilogremu akufuneki)
4.4 **Umthamo/ Ivolumu**	**Ukumeda okungakahleleki** • Ukumadanisa nokuhlela ubungako okusamanzi (umthamo) okuseemumathini ezimbili ezibekwe enye eduze kwenye. Abafundi bazokuhlola ngokuthela esimumathini sesithathu nakunesidingo. • Ukumadanisa nokuhlela ubungako balokho okusamanzi okungaphathwa ziimumathi ezimbili nazizalisiweko. (umthamo) • Sebenzisa ilimi ukukhuluma ngokufana Isib okunengi,okuncani,okuzeleko,okunganalitho	**Ukumeda okungakahleleki** • Ukumadanisa nokuhlela ubungako okusamanzi (umthamo) okuseemumathini ezimbili ezibekwe enye eduze kwenye. Abafundi bazokuhlola ngokuthela esimumathini sesithathu nakunesidingo. • Ukumadanisa nokuhlela ubungako balokho okusamanzi okungaphathwa ziimumathi ezimbili nazizalisiweko. • Sebenzisa ilimi ukukhuluma ngokufana Isib okunengi, okuncani, okuzeleko, okunganalitho. • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela nokurekhoda umthamo weemumathi ngokusebenzisa iimedo ezingakahleleki. Isib Isigobho nekomitjhi	**Ukumeda okungakahlelelwa** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela bewurekhode umthamo weemumathi (Isib. ubunengi isimumathi esikghona ukuphatha nasizalisiweko) ngokusebenzisa izinto zokumeda ezingakahleleki isib. Iingobho neenkomitji.	**Ukumeda okungakahlelelwa** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela bewurekhode umthamo ongeemumathini (Isib. ubunengi isimumathi esikghona ukuphatha nasizalisiweko) ngokusebenzisa izinto zokumeda ezingakahleleki isib. Iingobho neenkomitji.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
4.4 **Umthamo/ Ivolumu**		• Ukuhlathulula umthamo wesimumathi ngokubala nookutjho bonyana mayunithi amangaki angakahleleki angazalisa isimumathi isib. Ibhodlelo linomthamo weenkomitji ezine.	• Ukuhlathulula umthamo wesimumathi ngokubala nookutjho bonyana mayunithi amangaki angakahleleki angazalisa isimumathi isib. Ibhodlelo linomthamo weenkomitji ezine. **Ukwethula ukumeda okuhlelekileko.** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela nokurekhoda ubungako bezinto ngokumeda ngamalitha. • Ukumadanisa, ukuhlela nokurekhoda ubungako beempakana zezinto zerhwebo lezo ubungako bazo bubalwe ngamalitha Isib ibisi lamalitha ama-2, isiselo selitha e-1, ipende yamalitha ama-5.	• Ukuhlathulula umthamo wesimumathi ngokubala nookutjho bonyana mayunithi amangaki angakahleleki angazalisa isimumathi isib. Ibhodlelo linomthamo weenkomitji ezine. **Ukwethula ukumeda okuhlelekileko.** • Ukulinganisa, ukumeda, ukumadanisa, ukuhlela nokurekhoda ubungako bezinto ngokumeda ngamalitha, isiquntu selitha nekota yamalitha • Ukumadanisa, ukuhlela nokurekhoda ubungako beempakana zezinto zerhwebo lezo ubungako bazo bubhalwe ngamalitha isib. Ibisi lamalitha ama-2, isiselo selitha e-1, ipende yamalitha ama-5 nofana kutlolwe ngamamililitha isib. Ibisi elimamililitha ama-500, isiselo esimamililitha ama -340, i-oli emamililtha ama -750. • Ukwazi bona ubungako bekomitji elingeneko bumamililitha ama-250. • Ukwazi bona ubungako betelebhula elingeneko bumamililitha ama-5 (Ukutjhugululwa hlangana namamililitha namalitha akufuneki).
4.5 **Ipherimitha nobungako bendawo**				**Ipherimitha** Ukurhubhulula ubude obuzombelezako bezinto ezi-2-D nezi 3-D ngokusebenzisa ukumadanisa okunqophileko namayunidi angakahleleki. **Ubungako bendawo** Ukurhubhulula ngobungako bendawo ngokusebenzisa ukuthayela.

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5. UKUPHATHA IDATHA

Iragelo phambili lokuphatha iDatha.

- Iragelo phambili lokuphatha idatha ukweqela kamanye amagreyidi kuphumelele ngoku:
  - Ukutjhida ekusebenzeni ngezinto ukuya ekusebenzeni ngedatha, kanye
  - Ngokusebenza ngeendlela ezitja zokwethulwa kwedatha.
- Abafundi kufanele basebenze ngomzombe wedatha ophelelekо okungenani kanye ngonyaka-lokhu kufaka ukubuthelela nokuhlelwa kwedatha, ukujamisela idatha, ukuhlaziya idatha, ukurhumutjha idatha nokubika idatha.
- Amanye wamaphuzu wokuphatha idatha angasetjenziswa nemisebenzi ehlukeneko.

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
5.1 **Ukubuthelela nokuhlela izinto ngemihlobo**	**Ukubuthelela nokuhlela izinto ngemihlobo** Ukubuthelela nokuhlela izinto ezibonakalako ngemihlobo	**Ukubuthelela nokuhlela izinto ngemihlobo** Ukubuthelela nokuhlela izinto ezibonakalako ngemihlobo		
5.2 **Ukujamiselela ibuthelelo lezinto elihlelekileko**	**Ukujamiselela ibuthelelo lezinto elihlelekileko** Ukugwala iinthombe zezinto ezibuthelelweko (iphikthografi).	**Ukujamiselela ibuthelelo lezinto elihlelekileko** Ukugwala iinthombe zezinto ezibuthelelweko		
5.3 **Coca bewubike ngokuhlelwa kwezinto ezibuthelelweko**	**Coca bewubike ngokuhlelwa kwezinto ezibuthelelweko** Phendula imibuzo ngokuthi: • Okubuthelelweko kwahlelwa ngemihlobohlobo bunjani? (umkhiqizo) • Imigwalo yebuthelelo.	**Coca bewubike ngokuhlelwa kwezinto ezibuthelelweko** • Nikela iinzathu ngokuthi okubuthelelweko kuhlelwe bunjani. • Phendula imibuzo ngokuthi: - Ukuhlelwa ngemihlobo kwenziwa bunjani (indlela yekambiso) - Okubuthelelweko kwahlelwa ngemihlobohlobo kunjani? (umkhiqizo) • Hlathulula okubuthelelweko nemigwalo ngemihlobo • Hlathululo bona okubuthelelweko kuhlelwe bunjani		

IINHLOKO	IGREYIDI R	IGREYIDI 1	IGREYIDI 2	IGREYIDI 3
5.4 **Ukubuthelela nokuhlela idatha**		**Ukubuthelela nokuhlela idatha** • Buthelela idatha yetlasi nofana yesikolo ukuphendula imibuzo ebuzwa ngutitjhere	**Ukubuthelela nokuhlela idatha** • Buthelela idatha yetlasi nofana yesikolo ukuphendula imibuzo ebuzwa ngutitjhere	**Ukubuthelela nokuhlela idatha** • Buthelela idatha yetlasi nofana yesikolo ukuphendula imibuzo ebuzwa ngutitjhere • Ukuhlela idatha enikelwe ngutitjhere namkha incwadi yomsebenzi/ incwadi yokufunda • Hlela idatha ukuya nge: - Amarhelo - Amathali - Amathebula
5.5 **Ukujamiselela idatha**		**Ukujamiselela idatha** • Ukujamiselela idatha negrafu yeenthombe. • Umkhawulo weenthombe zegrafu ngokunye nokunye ngokukhambelana.	**Ukujamiselela idatha** • Ukujamiselela idatha negrafu yeenthombe. • Umkhawulo weenthombe zegrafu ngokunye nokunye ngokukhambelana.	**Ukujamiselela idatha** • Ukujamiselela idatha kuma - Iphikthografi (Umkhawulo weenthombe zegrafu ngokunye nokunye ngokukhambelana) - Ibhagrafu
5.6 **Bahlaziya bebarhumutjhe idatha**		**Hlaziya bewurhumutjhe idatha** • Ukuphendula imibuzo ngedatha yeemkhawulo esegrafini yeenthombe ngakunye nakunye ngokukhambelanako.	**Hlaziya bewurhumutjhe idatha** • Ukuphendula imibuzo ngedatha yeemkhawulo esegrafini yeenthombe ngakunye nakunye ngokukhambelanako	**Hlaziya bewurhumutjhe idatha** Ukuphendula imibuzo ngedatha ethulwe: • Iphikthografi (Umkhawulo weenthombe zegrafu ngokunye nokunye ngokukhambelana) • Ibhagrafi

3.3 IHLATHULULO LOKUMUMETHWEKO

Kilesi isigaba sokumumethweko okuhlathululako, utitjhere unikelwe loku:

- Umbonomazombe wegreyidi R-3
- Iintjhukumezo zeenhloko ngokulandelanako ngokuya ngamathemu; ingasi woke amahlangothi wezinye iinhloko zoke owafundiswa kiwo woke amthemu. Amanye amahlangothi wezinye iinhloko afuna ukufundiswa ngaphambili kwamanye amahlangothi wezinye iinhloko.
- Ibelo elitjhukunyeziweko leenhloko ngonyaka, njengombana okhunye okumumethweko kudinga isikhathi esinengi kunesinye, ngokunjalo ezinye zeenhloko zidinga isikhathi esinengi kunezinye.
- Amanothi atlhadlhulako nomhlahlandlela wokufundisa aneembonelo nakufaneleko.

Esinye nesinye isigaba sokumumethweko siphulwe saba ziinhloko. Zoke iingaba zokumumethweko kufanele zifundiswe kuwo woke amathemu. Ukulandelaniswa kweenhloko ngokwamathemu kunikela umqondo wokuthi iinhloko zingasabalaliswa bezibuyekezwe unyaka woke. Akukakateleleki ukufundisa zoke iinhloko zeSikhala nobujamo, ukumeda nokuphatha iDatha ngawowoke amathemu, kodwana, zoke iinhloko kufanele zifundiswe phakathi konyaka.

Esahlukweni 2 (ipharagrafu 2.6) ukulinganiswa kwesigaba sokumumethweko sinikeliwe. Nange lokhu kuhlanganiswa nama-iri anikelweko ngomnyaka umuntu angabalisisa isikhathi esinikelweko kwesinye nesinye isigaba sokumumethweko.

Abotitjhere bangakhetha ukulandelanisa (ukuhlela) nokubeka igadango okumumethweko ngokuhlukileko kunalokho okuphakanyisiweko kilesi isahluko. Abotitjhere bangatjhugulula inani lesikhathi esinikelweko esihlokweni kancani, kodwana kufanele kutjhejwe ukuthathwa kokuhlobana kwama –iri wokulinda nesikhathi esibekiweko sesigaba, sokumumethweko eembalweni nofana esiGabeni esisiSekelo.

- **EGreyidini-R** iMathamethiksi ibunjwe ngendlela omhlobo weembalo ezivumbukako. Ngakho-ke kufanele bona kuyelelwe bonyana akukafaneli kuphulwe kube isikhathi sezifundo. Utitjhe we greyidi R ufanele alukelele iimbalo emisetjenzaneni yabafundi yangamalanga. Nanyana isikhathi sokufundisa iimbalo kufanele sibekelwe lapho utitjhere azokunqopha emisebenzini yokufundisa iimbalo kwaphela, nakungasinjalo abafundi angeke balemuke nofana bathuthukise iminqopho namakgono weembalo.
- Isikhathi samagreyidi 1-3 sabiwe ngale indlela
  - **Ama-iri alikhomba kufanele asetjenziselwe iimbalo ngeveke** (10x4 yamathemu x7yama-iri=280 yama-iri ngonyaka).
  - Zoke iimfundo zeembalo kufanele zibe **li-iri nemizuzu ema 24 ngelanga emagreyidini 1-3.**
  - Lokhu kutjho ukuthi kunamathemu amane wemveeke ezi-10 ezinamalanga amahlanu (ngomvulo ukuya kulosihlanu) weemfundo ngeveke.
  - Thatha iveke ukujayeza nokuhlanganisa njalo ekuthomeni kenye nenye ithemu, njengombana abantwana abancani bakhohlwa okumumethweko okunengi ngesikhathi sokuphumula begodu balahlekelwa naligido lokufunda. Nikela iveke eyodwa njalo ekupheleni kwethemu uhlanganise imiqondo. Lokhu kunikela 8 x 4 x 5 =160 yeemfundo.

3.4 UKULANDELANISA NOKUHLELA OKUMUMETHWEKO

Amathebula alandelayo anikelwe igreyidi enye nenye emaGreyidi ku R-3.

- Ukubeka igadango leenhloko lonyaka woke (kutjengisa ukusabalaliswa kweenhloko ngamathemu woke, bebuphakamise inani lesikhathi okufanele sicithwe kesinye nesinye isihloko sesinye nesinye isigamu sokumumethweko).
- Ukulandelanisa iinhloko konyaka woke (kutjengisa bonyana iinhloko zahlukaniswe bunjani ngamathemu nokuragela phambili kokumumethweko namakghono ngokuya ngamathemu).

- Amanothi wokuhlathulula ngokuya ngesihloko-amathebula lawo anikela ihlathululo lokumumethweko nomhlahlandlela wokufundiswako yesinye nesinye isihloko njengombana zilandelisiweko emathemini woke.

Ukuhlela Isifundo – Ukunikela Isihloko Sethemu

Inomboro sihloko esiqakatheke khulu Eembalweni zeSigabeni Esisisekelo. Esikhathini esiningi kwenye nenye iveke, ithemu, nonyaka inqophe eeNomborweni, Ukusebenza Nobudlelwana. Ngokulingeneko, iimfundo eentathu nofana ngaphezulu zeeMbalo kufanele zinqophe eeNomborweni, UkusebenzaNobudlelwana kwenye neneye iveke. Isikhath esiseleko sihlukaniselwa iingaba zokumumethweko ezinye.

Isikhala noBujamo nokuMeda zifuna isikhathi esinengi kunokuPhatha iDatha namaPhetheni, amaFanktjhini ne-Aljibhra. Ithebula elingenzasi linikela isitjengiso sokobana ziimfundo ezingaki okufanele zinikelwe esinye nesinye isigaba sokumumethweko nesihloko kwenye nenye igreyidi kuma Phetheni, amaFanktjhini ne-Aljibhra, Isikhala noBujamo, Ukumeda nokuphatha iDatha:

- **Ukwabela iGreyidi R iingaba zokumumethweko neenhloko eemfundweni**

Njenge **Greyidi R,** Iimbalo zithatha ubujamo be**Mbalo Ezisathomako** ngalokho ke isikhathi esilandelako esiphakanyisiweko sinikela zombili izehlakalo zeeMbalo ezinqophileko nemisetjenzana ehlangeneko engakahlelelwa. Lokhu kwenzelwe ukuqinisekisa ukufundiswa ngokuzeleko kwakho koke okumumethweko okukhona. Imisetjenzana yeeMbalo Ezivumbukako kungaba kubala inani lama puleyiti neembhigiri okufanele bazikhuphele ukufaka isibuyisamathe sabo, imidlalo yokubala edlalwa ngaphandle imidlalo yangendlini efana nama Domino namaphazili wejikhsara, njll. Utitjhere kufanele ahlele kuhle yoke imisetjenzana ngokuya ngokweendingo zabantwana bakhe neensetjenziswa ezikhona ngetlasini lakhe.

Isikhala noBujamo yingcenye eqakathekileko yokuthuthukisa i-IiMbalo yomfundi omncani begodu kufanele busatjalaliswe iveke yoke, ngezehlakalo ezithize ezinqophileko ngaphasi kokukhokhelwa ngutitjhere, abafundi banikelwe amathuba amanengi wokwakha, ukudlala umdlalo wesanda namanzi.

Ukumeda kufanele kufakwe hlangana emisetjenzaneni yokubala, isib. Ukufunisela/ ukulinganisa nokubala lokha kumedwa ibanga ngezandla, iinyawo namagadango.

Irejistara yokubakhona netjhadi lobi ujamo bezulu zinikela amathuba aneleko wokusebenza ngoku**Phatha iDatha.**

Ithebula 3.1 Isikhathi esinikelweko ngokuya ngokumumethweko ngeveke

Iingaba zokumumethweko	Iinhloko	Isikhathi Esiphakanyisiweko
Iinomboro, ama-Opharetjhini noBudlelwano	Ukubala Ukukhumbula Inomboro Ukubona nokurhumutjha iinomboro eziphelelekо Inomboro oyibona ngamehlo wengcondo Ukurarulula imiraro	**imizuzu eli-120**
Amaphetheni, amaFanktjhini ne-Aljibhra	Ukukopulula, ukulula nokutlama amaphetheni wakhe.	**imizuzu ema-80**
Isikhala noBujamo (Jiyomethri)	Ukukhumbula, nokutjho iinthombe/ibumbeko ezinobujamo obubusobubili (2-D) Amabumbeko weJiyomethri. Ukwakha izinto ezinobujamo abobusontathu (3-D) usebenzise imatheriyali ephathekako Ubudlelwana bendawo Iinkombatjhuba	**imizuzu ema-80**
Ukumeda	Isikhathi Ubude Imasi / ubungakho/ ubunengi Umthamo	**imizuzu ema- 80**
Ukuphatha iDatha	Ukubuthelela, ukuhlela ngamananeko, ukugwala, ukufunda nokujamisela idatha.	**imizuzu ema-60**
INANI		**Imizuzu ema 420 (ama iri ali 7 ngeveke)**

- **Isabelo seGreyidi yoku-1 sokumumethweko neenhloko zeemfundo emaGreyidini woku-1ukuya kwe-3**

Ngokulingeneko iimfundo ezintathu (o.u hlangana kwama-iri ama-4 nama-iri ama-4½) ngeveke zisetjenziselwa iiNomboro, ama-Opharetjhini noBudlelwano emagreyidini woku -1, wesi-2 nawesi-3. Iimfundo ezimbili eziseleko (o.u hlangana kwama-iri ama-2½ nama-iri ama-3) zihlukaniswa hlangana neenhloko zokhunye okumumethwekonukuya ngendlela ekuphakanyiswe ngayo ngenzasi.

Ithebula 3.2 Inani leemfundo eliphakanyisiweko ngokuya ngokumumethweko nangeThemu yeGreyidi yoku-1

Iingaba zokumumethweko	Iinhloko	Inani leemfundo				
		IThemu yoku-1	IThemu yesi-2	IThemu yesi-3	IThemu yesi-4	Inani
Iinomboro, ama-Opharetjhini Nobudlelwano	Iinhloko zoke zeenomboro, ama-Opharetjhini noBudlelwano	**22**	**30**	**28**	**25**	**105**
Amaphetheni, amaFanktjhini ne-Aljibhra	Amaphetheni weenomboro	**3**	**3**	**3**	**3**	**12**
	Amaphetheni weJiyomethri	**1**	**1**	**1**	**1**	**4**
Isikhala noBujamo (Jiyomethri)	Amajamo abusobubili (2-D)		**3**		**3**	**6**
	Izinto ezibusontathu (3-D)	**3**		**2**	**1**	**6**
	Ubujamo, ukujayeza nokubukela	**2**			**1**	**3**
	Isimethri			**1**	**1**	**2**
Ukumeda	Isikhathi	**2**				**2**
	Ubude	**2**		**2**		**4**
	Ubudisi	**2**			**2**	**4**
	Umthamo/iVolumu	**1**	**2**		**1**	**4**
Ukuphatha iDatha	Ukubuthelela, ukuhlela ngemihlobo, ukujamisela nokurhumutjha izinto.	**2**	**1**			**3**
	Umzombe wedatha opheleleko			**3**		**3**
	Iingaba zomzombe wedatha				**2**	**2**
Inani leemfundo		**40**	**40**	**40**	**40**	**160**

Ithebula 3.3 Inani leemfundo eziphakanyisiweko ngokuya ngeGreyidi yesi- 2

lingaba zokumumethweko	linhloko	Inani leemfundo				
		IThemu yoku-1	IThemu yesi-2	IThemu yesi-3	IThemu yesi-4	Inani
linomboro, ama-Opharetjhini Nobudlelwano	linhloko zoke zeenomboro, ama-Opharetjhini noBudlelwano	24	25	24	26	99
Amaphetheni, amaFanktjhini ne-Aljibhra	Amaphetheni weenomboro	3	3	3	3	12
	Amaphetheni weJiyomethri	1	1	1	1	4
Isikhala noBujamo (Jiyomethri)	ubujamo obubusobubili (2-D)		3		3	6
	Izinto ezibobusontathu (3-D)	3		2	1	6
	Ubujamo, ukujayeza nokubukela		2	1		3
	Isimethri		1		1	2
Ukumeda	Isikhathi	3	1	3	1	8
	Ubude	3			1	4
	Ubudisi		3		1	4
	Umthamo/iVolumu			3	1	4
Ukuphatha idatha	Umzombe wedatha opheleleko	3		3		6
	lingaba zomzombe wedatha		1		1	2
Inani leemfundo		**40**	**40**	**40**	**40**	**160**

Ithebula 3.4 Inani leemfundo eziphakanyisiweko ngokuya ngeGreyidi yesi- 3

lingaba zokumumethweko	linhloko	Inani leemfundo				
		IThemu yoku -1	IThemu yesi-2	IThemu yesi-3	IThemu yesi-4	Inani
linomboro, ama-Opharetjhini Nobudlelwano	linhloko zoke zeenomboro, ama-Opharetjhini noBudlelwano	26	22	19	27	94
Amaphetheni, amaFanktjhini ne-Aljibhra	Amaphetheni weenomboro	3	3	3	3	12
	Amaphetheni weJiyomethri	1	1	1	1	4
Isikhala noBujamo(Jiyomethri)	ubujamo obubusobubili (2-D)	2		2		4
	Izinto ezibusontathu (3-D)		3	3	1	7
	Ubujamo, ukujayeza nokubukela		2	3		5
	Isimethri		2		1	3
Ukumeda	Isikhathi	3	2	3	2	10
	Ubude		2	2		4
	Ubudisi		2		1	3
	Umthamo/iVolumu	2			1	3
	iPherimitha			1		1
	Ubungako bendawo				2	2
Ukuphatha idatha	Umzombe wedatha opheleleko	3		3		6
	lingaba zomzombe wedatha		1		1	2
Inani leemfundo		**40**	**40**	**40**	**40**	**160**

- **Umbono mazombe weGreyidi R ngethemu**

UMBONOMAZOMBE WEGREYIDI R 1. IINOMBORO, AMA-OPARETJHINI NOBUDLELWANA				
COUNTING				
IINHLOKO	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
1.1 **Ukubala izinto** (linganisa begodu ubale izinto ukuthuthukisa umqondonomboro)	**Irherho leenomboro kusuka ku: 1-5** • Kunye - nakunye – okukhambelanako **Ethula Itjhadi Lomsizi** kanye nelandelano lokupha / lokunikela iinqabuli • Bala ngakunye - Iinsetjenziswa eziphathekako - Izitho zomzimba - Ukubetha izandla - Ukugida ngenyawo - Iintepisi zokukhwela • Ukubala okungakahleleki: Imilolozelo neengoma zeenomboro.	**Irherho leenomboro kusuka ku: 1-7** • Kunye - nakunye – okukhambelanako. **Ukuqinisa Itjhadi Lomsizi** ngamalanga • Bala ngakunye - Iinsetjenziswa eziphathekako - Izitho zomzimba - Ukubetha izandla - Ukugida ngenyawo - Iintepisi zokukhwela • Ukubala okungakahleleki: Imilolozelo neengoma zeenomboro. • Wahla izandla kanengi / kambalwa.	**Irherho leenomboro kusuka ku: 1-10** • Kunye - nakunye – okukhambelanako. **Ukuqinisa Itjhadi Lomsizi** ngamalanga. • Bala ngakunye - Iinsetjenziswa eziphathekako - Izitho zomzimba - Ukubetha izandla - Ukugida ngenyawo - Iintepisi zokukhwela • Ukubala okungakahleleki: • Imilolozelo neengoma zeenomboro • Wahla kanengi / kambadlwana: Ngimaphi amawahlo amanengi/ amancani, amanengi khulu / amancani khulu	**Irherho leenomboro kusuka ku: 0-10** • Kunye - nakunye – okukhambelanako. **Ukuqinisa Itjhadi Lomsizi** ngamalanga. • Bala ngakunye - Iinsetjenziswa eziphathekako - Izitho zomzimba - Ukubetha izandla - Ukugida ngenyawo - Iintepisi zokukhwela • Ukubala okungakahleleki: • Imilolozelo neengoma zeenomboro. • Wahla kanengi / kambadlwana: Ngimaphi amawahlo amanengi/ amancani, amanengi khulu / amancani khulu
1.2 **Ukubala uye phambili nemuva**	**Irherho leenomboro kusuka ku: 1** Ukubala ungakanaki usebenzisa imidunduzelo yokubala kanye neengoma zokubala, izinto zokubala, izinto ezinobuso obuthathu - 3D, ukubala ngokusikinya umzimba. **Bala nga:** • **kunye**	**Irherho leenomboro kusuka ku: 1-4** Ukubala ungakanaki usebenzisa imidunduzelo yokubala kanye neengoma zokubala, izinto zokubala, izinto ezinobuso obuthathu - 3D, ukubala ngokusikinya umzimba. **Bala nga:** • **kunye**	**Irherho leenomboro kusuka ku: 1-7** Ukubala ungakanaki usebenzisa imidunduzelo yokubala kanye neengoma zokubala, izinto zokubala, izinto ezinobuso obuthathu - 3D, ukubala ngokusikinya umzimba begodu nelere yeenomboro. **Bala nga:** • **kunye**	**Irherho leenomboro kusuka ku: 0-10** Ukubala ungakanaki usebenzisa imidunduzelo yokubala kanye neengoma zokubala, izinto zokubala, izinto ezinobuso obuthathu - 3D, ukubala ngokusikinya umzimba begodu nelere yeenomboro. **Bala nga:** • **kunye**

IINHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
1.3 **Amatshwayo weenomboro namabizo weenomboro** (Ukulemuka nokubona amatshwayo weenomboro begodu ulemuke amagama weenomboro)	**Irherho lenomboro:** • Amatshwayo weenomboro: **1** • Amabizo weenomboro: **kunye** - Okuphathelene nokusikinyeka komzimba(tjengisa ngomzimba) - Phathekako ngezinto ezibuso buthathu i- 3-D okufaka hlangana inomboro ku- 1. - Okupheze kuphatheke ngamakarada weenthombe afaka hlangana inomboro u ku-1 - Okupheze kuphatheke ngamakarada wamacatjhazi afaka hlangana inomboro uku-1 • Qinisa ilwazi elitholakeleko elifaka hlangana inomboro uku- 1.	**Irherho lenomboro:** • Amatshwayo weenomboro: **ku- 2 kuya ku 4** • Amabizo weenomboro: **kubili, kuthathu, kune.** - Okuphathelene nokusikinyeka komzimba (tjengisa ngomzimba) - Phathekako ngezinto ezibuso buthathu i- 3-D okufaka hlangana iinomboro ku- 2, 3 noku-4. - Okupheze kuphatheke ngamakarada weenthombe afaka hlangana iinomboro u ku-2, 3,noku-4. - Okupheze kuphatheke ngamakarada wamacatjhazi afaka hlangana iinomboro uku-2, 3, noku-4. • Qinisa ilwazi elitholakeleko elifaka hlangana iinomboro ku-1 kuya ku ku-4.	**Irherho leenomboro:** • Amatshwayo weenomboro: **5 kuya ku li- -7** • Amabizo weenomboro **kuhlanu, sithandathu, likhomba** - Okuphathelene nokusikinyeka komzimba (tjengisa ngomzimba) - Phathekako ngezinto ezibuso buthathu i- 3-D okufaka hlangana iinomboro ku- 5, 6 ne-7. - Okupheze kuphatheke ngamakarada weenthombe afaka hlangana iinomboro u ku-5, 6, ne-7. - Okupheze kuphatheke ngamakarada wamacatjhazi afaka hlangana iinomboro uku-5, 6, ne-7. • Qinisa ilwazi elitholakeleko elifaka hlangana inomboro ku- 1 kuya kuli-7.	**Irherho leenomboro:** • Amatshwayo weenomboro: **li- 0 ukuya kuli- 10** • Amabizo weenomboro **ilize, ubunane, lithoba, litjhumi** - Okuphathelene nokusikinyeka komzimba (tjengisa ngomzimba) - Phathekako ngezinto ezibuso buthathu i- 3-D okufaka hlangana iinomboro li- 0, 8, 9, ne -10. - Okupheze kuphatheke ngamakarada weenthombe afaka hlangana iinomboro u li-0, 8, 9 ne-10. - Okupheze kuphatheke ngamakarada wamacatjhazi afaka hlangana iinomboro ili -0, 8, 9 ne-10. • Qinisa ilwazi elitholakeleko elifaka hlangana inomboro 1-10.

IINHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
UKULEMUKA INOMBORO				
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro** (ukusebenzisa iinomboro ebujameni obujayelekileko)	**Sebenzisa iinomboro ebujameni obujayelekileko** • Umfundi kufanele azi iminyaka yakhe. • Ukuzalisa irejistara yokuba khona yangamalanga.isib. - Umfundi onetshwayo namkha isithombe se-ayisikhrimu ukhona na namhlanje? - Umfundi onegama lakaSipho ukhona na namhlanje? - Ingabe umfundi onebizo lakaSipho Sibusiso nesibongo sakwaMahlangu ukhona na namhlanje? • Lemuka iinomboro eenthombeni begodu nemakaradeni wamacatjhazi. • Dlala imidlalo yamakarada weenomboro.	**Sebenzisa iinomboro emajameni ajayelekileko** • Umfundi kufanele azi inomboro yendlu yakwabo begodu nesiphande sakhona • Qinisa ukusetjenziswa kweenomboro ngokuzalisa irejistara yokuba khona yangamalanga njengethemini yokuthoma. Isib. - Umfundi abahlala enomborweni yendlu i-123 ukhona na namhlanje? - Umfundi ohlala enomborweni 123 ku Wendy Street ukhona na namhlanje? - Umfundi oneenomboro zomtato/ zikamaliledinini 082 123 4567 ukhona na namhlanje? • Bona iinomboro eenthombeni nemakaradeni wamacatjhazi • Dlala umdlalo wamakarada weenomboro • Bona iinomboro eenkhangisweni / emaflayeni, emakaradeni wakade welanga lamabeletho.	**Sebenzisa iinomboro emajameni ajayelekileko** • Umfundi kufanele azi iinomboro zomtato wekhabo begodu / nofana zakamaliledinini wekhabo. (iinomboro zokuthintana zomzali) • Qinisa ukusetjenziswa kweenomboro ngokuzalisa irejistara yokuba khona yangamalanga njengethemini yokuthoma. Isib.Umfundi ugidinga ilanga lakhe lamabeletho mhlana amalanga ali-16 kuMatjhi / Ntaka ukhona namhlanje? • Bona iinomboro eenthombeni nemakaradeni wamacatjhazi • Dlala umdlalo wamakarada weenomboro • Bona iinomboro eenkhangisweni / emaflayeni, emakaradeni wakade welanga lamabeletho.	**Sebenzisa iinomboro emajameni ajayelekileko** • Qinisa ilwazi elimayelana nomnyaka, inomboro yendlu, isiphande, inomboro yekhaya yomtato / inomboro kamaliledinini (iinomboro zokuthintana) • Qinisa ukusetjenziswa kweenomboro ngokuzalisa irejistara yokuba khona yangamalanga njengethemini yokuthoma. Bangaki abafundi abalovileko namhlanje? Singathola njani? Abantwana bacoca ngalokhu: - Funisela / Raya; - Bala amalokhara anganalitho; - Bala iinhlalo ezinganabantu njll • Bona iinomboro eenthombeni nemakaradeni wamacatjhazi • Dlala umdlalo wamakarada weenomboro. • Bona iinomboro eenkhangisweni / emaflayeni, emakaradeni wakade welanga lamabeletho. • Bona iinomboro kibomagazini

IINHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
UMQONDO WENOMBORO (UBUDLELWANO)				
1.4 **Ukuhlathulula, ukumadanisa nokuhlela iinomboro** (ukubona nokuhlathulula iinomoboro ezizeleko) Madanisa bona ngiliphi lamabuthelelo amabili wezinto onikelwe wona ezi: a) Okukhulu nokuncani b) Okukhudlwana nokuncazana. c) Okukhulu khulu nokuncani khulu Madanisa bona ngiliphi lamabuthelelo amabili wezinto onikelwe wona ezi: a) nengi kuna b) ncani kuna c) lingana na (kufana na)	**Irherho lenomboro linomboro ukusukela ku: 1** Bona begodu uhlathulule iinomboro ezizeleko kufika kuku-1	**Irherho lenomboro inomboro ukusukela ku: 1 ukuya kuku-5** • Bona begodu uhlathulule iinomboro ezizeleko ku-2, 3 ukuya kuku-4 • Qinisa iinomboro ku-1 ukuyakuku-4	**Irherho lenomboro inomboro ukusukela ku: 1 ukuya ku li-7** • Bona begodu uhlathulule iinomboro ezizeleko ku-5, 6 ukuya kuli-7. • Qinisa iinomboro ku-1 ukuya kuli-7	**Irherho lenomboro kusukela e: 0 ukuya e-10** • Bona begodu uhlathulule iinomboro ezizeleko kubu-8, 9, ukuya kuli-10 • Qinisa iinomboro 0 -10
	Madanisa bona ngiliphi lamabuthelelo amabili wezinto onikelwe wona ezi: • Okukhulu nokuncani • Okukhudlwana nokuncazana. • Okukhulu khulu nokuncani khulu (ukukwethula iminqopho) • Hlela amabuthelelo wezinto adlula kwamabili onikelwe wona kusuka kwencaniwkhulu ukuya kwe kulu khulu begodu kusuka kwe kulu khulu ukuya kwencani khulu.			
	• Nengi nambalwa/dlanzana Isb Iwahlo eliphekelelako.	• Nengi kuna, ncani kuna, lingana na. • Okunengi nokulidlanzana isib. Isb Iwahlo eliphekelelako.	• Nengi kuna, ncani kuna, lingana na. • Okunengi nokulidlanzana isib. Isb Iwahlo eliphekelelako. Buza umbuzo othi ngiliphi ebelilinengi khulu / encani khulu	• Nengi kuna, ncani kuna, lingana na. • Okunengi nokulidlanzana isib. Isb Iwahlo eliphekelelako. Buza umbuzo othi ngiliphi ebelilinengi khulu / encani khulu

IINHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
Iinomboro sikhundla	**Thuthukisa ilemuko leenomboro sikhundla** ngokungakanakeki isib. Kokuthoma, kwesibili, kwesithathu, ...kwamaphelelo, okulandelako • Thula lokhu ngesikhathi **Seenqabuli/ sokuphumulaSokwenza imisetjenzana yangamalanga** bengodu nangesikhathi **sokuvakatjhela ngendlwaneni** 1thom, 2 bil, wamaphelelo , olandelako	**Thuthukisa ilemuko leenomboro sikhundla** ngokungakanakeki isib. Kokuthoma, kwesibili, kwesithathu, ...kwamaphelelo, okulandelako • Ukuqinisa iinomboro sikhundla ngokungaka nakeki ngokusebenzisa imisetjenzana yangamalanga yokuya endlini yokuphumela./ encani. • Begodu ungasebenzisa isifundo samaKghono Wepilo ngesifunjwana Sokuthabulula Umzimba. • Begodu nange sifunjwana sobuKghwari Bokutlama(nakukghonekako)	**Thuthukisa ilemuko leenomboro sikhundla** ngokungakanakeki isib. Kokuthoma, kwesibili, kwesithathu, ...kwamaphelelo, okulandelako • Ukuqinisa iinomboro sikhundla ngokungaka nakeki ngokusebenzisa imisetjenzana yangamalanga yokuya endlini yokuphumela/ encani. • Begodu ungasebenzisa isifundo samaKghono Wepilo ngesifunjwana Sokuthabulula Umzimba.	**Thuthukisa ilemuko leenomboro sikhundla** ngokungakanakeki isib. Kokuthoma, kwesibili, kwesithathu, ...kwamaphelelo, okulandelako • Thula iinomboro sikhundla woku thoma, wesibili, wesithathu, ukufika kowesithandathu. • Ukuqinisa iinomboro sikhundla ngokungaka nakeki ngokusebenzisa imisetjenzana yangamalanga yokuya endlini yokuphumela./ encani. • Begodu ungasebenzisa isifundo samaKghono Wepilo ngesifunjwana Sokuthabulula Umzimba.
RARULULA IMIRARO ESEBUJAMENI OBUTJHAPHUKILEKO USEBENZISA AMATHEKINIKI ALANDELAKO:				
1.6 **Amathekiniki wokurarulula imiraro** (ukusebenzisa amathekiniki namaqhinga)	Sebenzisa amathekiniki alandelako • Iinsetjenziswa eziphathekako isib. izinto zokubala.	Sebenzisa amathekiniki alandelako • Iinsetjenziswa eziphathekako isib. Izinto zokubala	Sebenzisa amathekiniki alandelako • Iinsetjenziswa eziphathekako isib. izinto zokubala • Ilere yeenomboro.	Sebenzisa amathekiniki alandelako • Iinsetjenziswa eziphathekako isib. izinto zokubala • Ilere yeenomboro eliphathekako

IINHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
1.7 **Ukuhlanganisa nokukhupha** (ukuralula imiraro yamagama bebahlathulule iinsombululo zabo emirarweni efaka hlangana): a) Ukuhlanganisa nokukhupha ngeempendulo ezifika e-10 **1.9** **Ukubuthelela nokwabelana okurholela ekuhlukaniseni** (Ukwabelana ngokulingana nokubuthelela ngeenomboro ezizeleko ezifika e-10 ngeempendulo ezifaka hlangana iinsalela.**)**		• Sebenzisa izinto zokubala begodu urarulule imiraro efaka hlangana iinomboro 2, 3 no 4 ngomlomo. • Qinisa ukurarulula imiraro efaka hlangana iinomboro 1 ukuya ku 4	• Sebenzisa izinto zokubala begodu urarulule imiraro efaka hlangana iinomboro 5, 6 ne 7 ngomlomo. • Qinisa ukurarulula imiraro efaka hlangana iinomboro 1 ukuya kuli- 7	• Sebenzisa izinto zokubala begodu urarulule imiraro efaka hlangana iinomboro 8, 9 ne 10 ngomlomo. • Qinisa ukurarulula imiraro efaka hlangana iinomboro 1 ukuya e-10

IINHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
1.11 **Imali**		**Imali** • Thuthukisa ilemuko lemali yesimbi / lamasende weSewula Afrika 20c, 50c, R1, R2, R5 • Bona umbala nokuthi ngisiphi isibandana esisemalini yesimbi ngayinye • Bona okufanako nokuhlukileko phakathi kwemali yesimbi. Isib. Hlela imali yokudlala ukuya ngombala nangobukhulu • Nikela ngemali yokudlala ekhoneni lekhaya	**Imali** • Thuthukisa ilemuko lemali yephepha yeSewula Afrika R10, R20, R50, R100, R200, • Bona okufanako nokuhlukileko phakathi kwemali yephepha. Isib. Hlela imali yokudlala ukuya ngombala nangobukhulu. • Nikela ngemali yokudlala ekhoneni lendlu.	**Imali** • Nikela ngemali yokudlala ekhoneni lendlu.
UKUBALA USEBENZISA:				
1.13 **Ukuhlanganisa nokukhupha** (bahlathulule ngomlomo imiraro yokuhlanganisa nokukhupha enensombululo ezifika e-10)		Rarulula ngomlomo imiraro yokuhlanganisa nokukhupha ngeempendulo ukufikela ku ku -4	Rarulula ngomlomo imiraro yokuhlanganisa, nokukhupha ngeempendulo ukufikela kuli-7	Rarulula ngomlomo imiraro yokuhlanganisa, nokukhupha ngeempendulo ukufikela e- 10.

- **Imihlobo yemiraro yeGreyidi R**

Imiraro enikelwa abafundi bakwaGreyidi R kumele ifake hlangana izinto lezo ezikhona ngetlasini kwaphela, isib. izinto zokubala, abantwana, amanyathelo, kodwana ingasi isib, amaswidi, imiqasa, amathuthumbo njll. Akusibo boke abafundi abangakwazi ukwenza ngasuthi izinto zokubala nofana imino imiqasana – batlhoga izinto zangetlasini ngokwazo. Kusesiquntwini sesibili somnyaka kwaphela lapho utitjhere angasebenzisa khona iinthombe. Izinto eziphathekako kusafanele kuragelwe phambili nokuzisebenzisa - iinthombe zisingezelelo ingasi isijamiselelo sezinto eziphathekako. Amaswazana omileko angasetjenziswa lokha utitjhere nakanganazo iinsetjenziswa.

Imiraro elandelako itjengisa imihlobo yemiraro,begodu kufanele utitjhere ayenze ilungele izinga lokuzwisisa labafundi bakhe.

Ukubuthelela

Naka amakokisana abu-8. (utitjhere ukhupha izinto zokubala ezibu- 8, nofana atjengise abafundi iinthombe zamakokisana abu-8.) UMkhosana uthola amakokisa amabili ngamalanga. Angathola amakokisa amalanga amangaki?

Ukwabelana

Kunamakokisana asi-6. (utitjhere ukhupha izinto zokubala ezibu- 6, nofana atjengise abafundi iinthombe zamakokisana asi-6) AboMakhosana bathathu (3) kwanjesi begodu kufanele babelane ngamakokisana ukwenzela bona boke bathole amakokisana alinganako. Mangaki amakokisana angatholwa ngomunye nomunye wabo?

Ukuhlanganisa, ukukhipha, ukuhlanganisa okubuyelelako

Abentwana aba-2 banamehlo amangaki?

Abentwana aba-4 baneendlebe ezingaki?

Mingaki imino esandleni esisodwa?

Mingaki imino ezandleni ezimbili?

ULindiwe unezinto zokubala ezisi-6. Unikela uBheni izinto zokubala ezi-2. Sekanezinto zokubala ezingaki kwanjesi?

Abotitjhere kufanele bahlanganise imihlobo ehlukahlukeneko yemiraro ilanga nelanga. Kufanele kancani kancani bandise ubukhulu beenomboro abazisebenzisa emirarweni, begodu bangazicabangeli badlumbane bonyana abafundi bazokuba nemiraro lokha nabasebenza ngeenomboro ezikulu.

UMBONOMAZOMBE WEGREYIDI R 2. AMAPHETHENI AMAFANKTJHINI NE-ALJIBHRA				
IINHLOKO	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
2.1 **Amaphetheni weJiyomethri** (Kopa begodu ungezelele amaphetheni alula abuyelelako ngokusebenzisa izinto eziphathekako nemigwalo) (**Tlama** amaphethini okungewakho abuyelelako)	• Bona amaphethini ezambathweni, kanye nebhodulukweni • Kopa begodu uqedelele amaphethini • Kopa amaphethini ngokusebenzisa umsikinyeko owenzeka nakusetjenziswa amalungu womzimba. • Kopa, qedelela begodu utlame amaphethini okungewakho.	• Kopa, ungezelele begodu uzitlamele amaphethini wakho • Kopa iphethini enikelweko ngokusebenzisa imali yesimbi.	• Kopa, ungezelele begodu uzitlamele amaphethini wakho ngeenthombe.	• Kopa, ungezelele begodu uzitlamele amaphethini wakho owezwako (ngokulalela) • Kopa iphethini yetjhada • Dlala umdlalo we “ Abskotjhi ”

UMBONOMAZOMBE ZEGREYIDI R 3. ISIKHALA NOBUJAMO (JJIYOMETHRI)				
IINHLOKO	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
3.1 **Ubujamo, ukujayeza nokubukela** Hlathulula into eyodwa ebusontathu 3-D mayelana nobujamo bayo kenye. (isib. Ngemuva nanga phambili)	**Ubudlelwana bendawo** **Ubujamo bezinto ezimbili nofana ngaphezulu mayelana nomfundi.** • Phambi kwe nangemuva kwa • Phezulu, ngaphezulu, ngaphasi, naphasi. • Ngaphakathi nangaphandle • Phezulu naphasi • Eduze na, na hlangana na. **Ukudlala ngaphandle kuqakathekile. Ijangeli jimu ingasetjenziswa ukuqinisekisa/ukuqinisa, isibonelo:** • Imiqondo yeembalo • UbuKgwari bokuTlama • Ukuthuthuka ngokomzimba	**Ubudlelwana bendawo** **Ubujamo bezinto ezimbili nofana ngaphezulu mayelana nomfundi** • Phezulu nangaphasi	**Ubudlelwana bendawo** **Ubujamo bezinto ezimbili nofana ngaphezulu mayelana nenye kenye** • Phambi kwe nangemuva kwa • Phezulu, ngaphezulu, ngaphasi,ngaphasi • Eduze na • Phakathi • Ngesinceleni begodu ngesidleni • Umsebenzi wephegibhodi **Ukuhlathulula izinto emahlangothini ahlukileko isb, unompopi, indlu ngaphambili,ngemuva,ngemaqadi ukuya ngokuthi umuntu ujame kuphi**	**Ubudlelwana bendawo** **Ubujamo bezinto ezimbili nofana ngaphezulu mayelana nomfundi** • Ngaphambi kwe nangemva kwa • Phezulu,ngaphasi nofana phasi • Phezulu naphasi eduze na, phakathi • Eduze na, phakathi • Ngesinceleni begodu ngesidleni **Ubujamo bezinto ezimbili nofana ngaphezulu mayelana nenye kenye** • umsebenzi wephegibhodi • Ngaphambi kwe nangemva kwa • Phezulu,ngaphasi nofana phasi • Phezulu naphasi • Eduze na, phakathi • Ngesinceleni begodu ngesidleni
Landela iinkomba (ayedwa namkha njengelunga lesiqhema) ukukhamba/ ukuzibeka endaweni ethileko(iinkomba tjhuba)	• Iinkomba tjhuba – phambili / emuva • Imidlalo efana nokulandela isitimela. • Indlela enenqabo elandela iinkomba • Isifundo sokuzithabulula nemisebenzi yengoma.		• Phambili / emuva • Itjhadi yabotjhobi	• Phambili nemuva • Phezulu naphasi • Ukuya phezulu nokuya phasi • Ngesinceleni nangekudleni • Itjhada libuya kuphi?

IINHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
3.2 **Izinto ezibusontathu** **(3-D)** (Ukukhumbula, ukubona nokutjho izinto ezibuso buthathu (3-D) ngetlasini): a) iimbholo b) amabhoksi	• **iimbholo**: Thula begodu uhlole iimbholo • **amabhoksi**: Thula begodu uhlola amabhoksi			
3.2 **Izinto ezibusontathu (3-D)** (Ukuhlathulula, ukuhlukanisa ngemohlobo nokumadanisa izinto ezibusontathu 3-D namajamo abobusobubili 2-D ukuya nge): a) Ubukhulu (khulu/ ncani) b) Umbala (bovu, hlaza sasibhakabhaka, tjheli,) c) Amabumbeko (indulungu, uncantathu, isikwere, uncamane) d) Izinto ezigedekako e) Izinto ezitjhelelako	• **Thula itjhadi lokuhlwengisa** (ukuhlela izinto zokudlala / amathoyisi) • **Ubukhulu:** hlela ngemihlobo izinto zokudlala ezibusontathu 3-D ukuya ngobukhulu. • **Umbala:** hlela ngemihlobo izinto ezibusontathu 3-D namajamo abobusobubili 2-D ukuya ngemibala esisekelo. • **Ibumbeko:** hlela ngemihlobo izinto ezibusontathu 3-D namajamo abobusobubili 2-D ukuya ngamabumbeko. • **Izinto ezigedekako** - Lemuka nokuhlola izinto ezigedekako - Qinisa izinto ezigedekako • Izinto ezitjhelelako - Lemuka nokuhlola izinto ezi-tjhelelako - Ukubona nokuhlola izinto ezitjhelelako nezigedekako	• Ukuhlela ukuya ngokufanako nangalokho okuhlukileko • **Ubukhulu:** hlela izinto ezibusontathu 3-D ngobukhulu. • **Umbala:** Lemuka nokuhlela izinto zokubala ukuya ngokombala obomvu, olihlaza sasibhakabhaka, otjheli kanye nolihlaza. • **Ibumbeko:** hlela ngemihlobo izinto ezibusobuthsthu 3-D namajamo abobusobubili 2-D ukuya ngamabumbeko.	• **Ubukhulu:** hlela ngemihlobo izinto ezibusontathu 3-D ukuya ngobukhulu. • **Umbala:** hlela ngemihlobo izinto ezibusobuthsthu 3-D namajamo abobusobubili 2-D ukuya ngemibala. • **Ibumbeko:** hlela ngemihlobo izinto ezibusontathu 3-D namajamo abobusobubili 2-D ukuya ngamabumbeko.	• **Ubukhulu:** hlela ngemihlobo izinto ezibusontathu 3-D ukuya ngobukhulu. • **Umbala:** hlela ngemihlobo izinto ezibusobuthsthu 3-D namajamo abobusobubili 2-D ukuya ngemibala. • **Ibumbeko:** hlela ngemihlobo izinto ezibusontathu 3-D namajamo abobusobubili 2-D ukuya ngamabumbeko.

IINHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
Akha izinto ezibusontathu 3-D ngokusebenzisa imatheriyali ephathekako (isib. Amabhlogo wokwakha)	**Okuragela phambili** • Nikela amabhlogo wokwakha namametheriyali wokwakha lokha nakudlalwa ngokutjhaphuluka ngaphakathi ngamalanga • Hlola ngamabhlogo wokwakha	**Okuragela phambili** • Nikela amabhlogo wokwakha namametheriyali wokwakha lokha nakudlalwa ngokutjhaphuluka ngaphakathi ngamalanga • Hlola ngamabhlogo wokwakha	**Okuragela phambili** • Nikela amabhlogo wokwakha namametheriyali wokwakha lokha nakudlalwa ngokutjhaphuluka ngaphakathi ngamalanga • Abafundi abazakhele izakhiwo zabo ngokukopa esibonelweni sokwakha esinikelweko. • Kopa isakhiwo esifanako usisusela kudizayini namkha ikarada lesithombe • Qinisa ukukopa isakhiwo esifanako usisusela kudizayini nofana ikarada lesithombe	**Okuragela phambili** • Nikela amabhlogo wokwakha namametheriyali wokwakha lokha nakudlalwa ngokutjhaphuluka ngaphakathi ngamalanga • Okuragela phambili ngesikhathi sokudlala ngokutjhaphuluka.
3.3 **Ubujamo obusobubili (2-D)** (Ukukhumbula, ukubona nokutjho ubujamo obubuso bubili (2-D) neenthombe ngetlasini, ukufaka hlangana): (a) Itshwayo lomfundi (b) Ibizo lesigaba / letlasi **Indlela yokwakha amaphazela Ubuncani:** (a) (Ithemu 1: 6 iinquntu) (b) (Ithemu 2: 12 iinquntu) (c) (Ithemu 3: 18 iinquntu) (d) (Ithemu 4: 24 iinquntu)	Vumela loyo naloyo mfundi bona azikhethele lakhe ikarada letshwayo elangeni lokuthoma • Tjengisa kwaphela **itshwayo/ isithombe** somfundi eenyangeni ezi-3 zokuthoma zomnyaka • Ukwethula ibizo letlasi isib. Ngokusebenzisa isithombe. Itlasi " ***lemiqasana*** " • Lebula emnyango wetlasi ibizo likatitjhere • Lebula utjengise bona litlasi lakwaGreyidi R **Amaphazela** • **Thula amaphazela** unikele nehlahlo/ nebandulo lokuwakha. • Cocisanani ngesithombe sephazela ngokuyelela khulu imininingwana efana: nombala, abantu/iinlwana, izinto, indawo lapho abantu / iinlwana zikhona nezinto • Abafundi kufanele baqedelela okungasenani iphazela ineenquntu ezisi-6 ekupheleni kwethemu	Tjengisa **itshwayo/isithombe negama** lomfundi eenyangeni ezi-3 ezilandelako. **Okuragela phambili** **Amaphazela (okuragako)** • Nikela imihlobo ehlukahlukeneko yamaphazela ngesikhathi sokudlala ngokutjhaphuluka ngaphakathi ngamalanga • Abafundi kufanele baqedelele okungasenani iphazela ineenquntu ezili- **12- ekupheleni kwethemu yesi-2** • Yenza begodu uqedelele iinquntu ezi-4 zephazela	Tjengisa kwaphela igama lomfundi elebulini eenyangeni ezisi-6 zokugcina zomnyaka **Okuragela phambili** **Amaphazela (okuragako)** • Nikela imihlobo ehlukahlukeneko yamaphazela ngesikhathi sokudlala ngokutjhaphuluka ngaphakathi ngamalanga • Abafundi kufanele baqedelele okungasenani iphazela ineenquntu ezili- **18 ekupheleni kwethemu yesi-3** • Yenza begodu uqedelele iinquntu ezi-5 zephazela	Tjengisa kwaphela igama lomfundi elebulini eenyangeni ezisi-6 zokugcina zomnyaka **Okuragela phambili** **Amaphazela (okuragako)** • Nikela imihlobo ehlukahlukeneko yamaphazela ngesikhathi sokudlala nangamalanga • The learners should be able to at least complete a **24-piece puzzle** at the end of term 4

IINHLOKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
3.3 **Ubujamo obusobubili (2-D)** **Ukubona isithombe kwesinye isithombe** **Amabumbeko wejiyomethri** a) indulungu b) uncantathu c) isikwere d) uncamane e) amajamo angatjhugulukiko (nanyana ubujamo ungabuqalisa kuphi, akutjhuguluki ukuba lijamo lelo)	• Thula imisetjenzana yokubona isithombe kwesinye isithombe(bona izinto " ngiyabona ngelihlo lami ") • Thula indulunga • Thula uncantathu • Thula isikwere	• Qinisa imisetjrnzana yokubona isithombe kwesinye isithombe ngemisetjenzana yokuhlela ngamananeko, yokumetjhisa, nemisetjenzana yokubuthelela nokuhlwengisa kwangamalanga. • Qinisa uncantathu • Ukubulungwa kobujamo (ukubulunga ubujamo baboncantathu: bonyana amajamo ahlala anjalo nanyana ungawabeka ngayiphi indlela \ ihlangothi.	• Qinisa imisetjrnzana yokubona isithombe kwesinye isithombe ngemisetjenzana yokuhlela ngamananeko, yokumetjhisa, nemisetjenzana yokubuthelela nokuhlwengisa kwangamalanga Nikela imihlobo ehlukahlukeneko yamaphazela ngesikhathi sokudlala nangamalanga. • Qinisa isikwere • Ukubulungwa kobujamo (ukubulunga ubujamo obufundiweko kufika nje: bonyana amajamo ahlala anjalo nanyana ungawabeka ngayiphi indlela \ ihlangothi	• Qinisa imisetjrnzana yokubona isithombe kwesinye isithombe ngemisetjenzana yokuhlela ngamananeko, yokumetjhisa, nemisetjenzana yokubuthelela nokuhlwengisa kwangamalanga Nikela imihlobo ehlukahlukeneko yamaphazela ngesikhathi sokudlala nangamalanga. • Qinisa indulunga, uncantathu, isikwere noncamane • Thula uncamane • Ukubulungwa kobujamo (ukubulunga ubujamo obufundiweko kufika nje: bonyana amajamo ahlala anjalo nanyana ungawabeka ngayiphi indlela \ ihlangothi
3.4 **Isimethri** (Ukubona umuda wokubanda phakathi kuye, begodu nebhodulukweni lakhe)	• Lemuka izitho zomzimba (ngokubala) • Ihloko, amehlo, ipumulo, umlomo, isilevu, intamo, amahlombe, umkhono, isandla, imino, isifuba,umlenze,idolo, inyawo,iinzwani • Umzimba womuntu unamahlangothi amabili • Qinisa ilemuko lokobana umzimba womuntu unamahlangothi amabili isib.ihlangothi langapha nelangale okuzakurholela ngesandleni sesincele nesokudla • Ukuvundla umuda ophakathi okufaka hlangana ukubala. Okungehla kufanele kwenziwe ngesikhathi sokuthuthuka ngokomzimba. • Ukusebenzisa imidunduzelo neengoma • ngesikhathi sobuKghwari bokuTlama.	• Ukuvundla umuda ophakathi - ukwenza imisikinyeko. • Ukusebenzisa ukuvundla phakathi ngesikhathi samaKghono wokuPhila (ukuthuthuka ngokomzimba) • Imidunduzelo neengoma • Imisebenzi yobuKghwari bokuTlama	• Ukuvundla umuda ophakathi – imisebenzi yebhodini • Ukusebenzisa ukuvundla phakathi ngesikhathi samaKghono wokuPhila (ukuthuthuka ngokomzimba)	• Ukuthuthukisa iyelelo lokobana kunomuda wokubanda phakathi ezintweni. • Ukusebenzisa ukuvundla phakathi ngesikhathi samaKghono wokuPhila (ukuthuthuka ngokomzimba)

UMBONOMAZOMBE WEGREYIDI R 4. UKUMEDA				
OKUMUMETHWEKO	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
4.1 **Isikhathi** Hlathulula isikhathi semini ukuya nge:emini namkha ebusuku. Landelanisa izehlakalo ezizibuyelelako epilweni yakhe yangamalanga a) Ihlelo langamalanga	• Ethula imiqondo yomibili " imini nobusuku" umkhanyo/ ubunzima • Ekuseni, ntambama,namhlanje ebusuku - (ukufunda ngesikhathi sehlelo letjhadi lobujamo bezulu • **Ethula ihlelo lelanga** - Abafundi bathola ilandelano lezehllakalo phakathi nelanga. - Iinthombe ziyatjengiswa ukusukela ngesinceleni ukufikela ngesidlelni kuthuthukiswa ukufunda. - Umrholi welanga ukhambisa ikomba etjhidako lokha imisebenzi esehlelweni lelanga iragela phambili	• **Ihlelo lelanga (eliragako)** - Qinisa ilandelano lezehlakalp ngelanga elilodwa ngebanga lehlelo lelanga.	• **Ihlelo lelanga (eliragako)** - Qinisa ilandelano lezehlakalp ngelanga elilodwa ngebanga lehlelo lelanga.	• **Ihlelo lelanga (eliragako)** - Qinisa ilandelano lezehlakalp ngelanga elilodwa ngebanga lehlelo lelanga.
b) Itjhadi lobujamo bezulu	• **Ethula itjhadi lobujamo bezulu bangamalanga**) - Utitjhere uhlahla abafundi ukuthola ibizo lelanga, inyanga ngengoma nangomdunduzelo, amafletjhikarada la kunamaleyibula namatshwayo ekhalendareni ukujamela iveke - Thuthukisa ilemukolomqondo wesikhathi - Tjengisa amalanga wamabeletho, ukuzikhupha, amalanga akhethekileko, amaholideyi waphakathi kweveke - Landelanisa iinyanga zomnyaka ngokusebenzisa ingoma	• **Ubujamo bezulu** (belanga) - Utitjhere uhlahla abafundi ukuthola ibizo lelanga, inyanga ngengoma nangomdunduzelo, amafletjhikarada la kunamaleyibula namatshwayo ekhalendareni ukujamela iveke	• **Ubujamo bezulu** (belanga) - Utitjhere uhlahla abafundi ukuthola ibizo lelanga, inyanga ngengoma nangomdunduzelo, amafletjhikarada la kunamaleyibula namatshwayo ekhalendareni ukujamela iveke	• **Ubujamo bezulu** (belanga) - Utitjhere uhlahla abafundi ukuthola ibizo lelanga, inyanga ngengoma nangomdunduzelo, amafletjhikarada la kunamaleyibula namatshwayo ekhalendareni ukujamela iveke

OKUMUMETHWEKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
4.1 **Isikhathi** Landelanisa izehlakalo ezizibuyelelako epilweni yakhe yangamalanga c) Amalanga weveke	• **Amalanga weveke** - Utitjhere ufundisa abafundi ingoma namkha umdunduzelo ngamalanga weveke.Buyelela ngalanga lokha nakucocwa ngetjhadi lobujamo bezulu - Ukulandelanisa amalanga weveke kusetjenziswa ingoma	• **Amalanga weveke (Okuragako)** - Utitjhere ufundisa abafundi ingoma namkha umdunduzelo ngamalanga weveke.Buyelela ngalanga lokha nakucocwa ngetjhadi lobujamo bezulu	• **Amalanga weveke (Okuragako)**	• **Amalanga weveke (Okuragako)**
d) Itjhadi leenkathi zonyaka	• **Itjhadi leenkathi zomnyaka** - Ethula itjhadi elitjengisa iinkhathi ezine zonyaka: o Ihlobo o Siruthwana o Ubusika o Silimela	• **Itjhadi leenkathi zonyaka** - Itjhobi elitjengisa iinkhathi zonyaka zanje liyatjhidiswa lokha iinkathi zomnyaka nazitjhugulukako. - Ilanga lokuthoma ngemuva kwamaholideyi weenkolo utitjhere kumele abuze abafundi bona bebenzani ngesikhathi samaholideyi. - Ukuthuthukisa ilemuko lalokho umfundi akwenzako kesinye nesinye isikhathi kusukela nakavukako bekube kula aya khona esikoleni. - Thuthukisa ilemuko lalokho okwenzekako hlangana nesikhathi sokudla kwantambama nesikhathi sokulala.	• **Itjhadi leenkhathi zomnyaka** - Itjhobi elitjengisa iinkhathi zonyaka zanje liyatjhidiswa lokha iinkathi zomnyaka nazitjhugulukako. - Ilanga lokuthoma ngemuva kwamaholideyi weenkolo utitjhere kumele abuze abafundi bona bebenzani ngesikhathi samaholideyi.	• **Itjhadi leenkhathi zomnyaka** - Itjhobi elitjengisa iinkhathi zomnyaka zanje liyatjhidiswa lokha iinkathi zonyaka nazitjhugulukako. - Ilanga lokuthoma ngemuva kwamaholideyi weenkolo utitjhere kumele abuze abafundi bona bebenzani ngesikhathi samaholideyi.
Ethula itjhadi lelanga lamaBeletho	• Ethula **itjhadi lelanga lamaBeletho** • Abafundi kumele bazi iminyaka yabo • Thuthukisa ilemuko lokobana nasifundako sisuka kuphi siye kuphi. • Abafundi kumele bazi amalanga wabo wamabeletho(ilanga nenyanga)	• Okuragako lokha kulilanga lamabeletho lomfundi • Okuragela phambili	• Okuragako lokha kulilanga lamabeletho lomfund. • Okuragela phambili	• Okuragako lokha kulilanga lamabeletho lomfundi • Okuragela phambili

OKUMUMETHWEKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
4.2 **Ubude** Madanisa ngokuphathekako begodu uhlele ngemihlobo izinto ngokusebenzisa ilwazi magama elifaneleko ukuhlathulula ubude. • Ethula itjhadi lobude - Meda ngezandla (Ngokucala begodu ngokungakahleleki) - Meda ngemitlhala yeenyawo (Ngokucala begodu ngokungakahleleki) - Meda ngetheyipu yokumeda - (Ngokucala begodu ngokungakahleleki) - de, fitjhani - denyana, fitjhazana - linganisa	**ubude** • ede nefitjhana (ngokucala) • Ethula umqondo wobude • Itjhadi lobude ngerzandla / ngeenyawo	**ubude** • Ede khulu begodu nefitjhana khulu, edanyana begodu nefitjhazana (hlolisisa ubude) • Qinisa umqondo wobude • Abafunda bathola bona bakhule kangangani solokho kwethemu edlulileko ***(Abafundi bangamadanisa ubude babo nokhunye okungetlasini isb.ikhabethe)***	**ubude** • Linganisa ubude bezinto ezihlukahlukenekoa • Linganisa begodu umadanise ubude bezinto ezihlukahlukeneko ngokusebenzisa iinyawo, izandla, intanjana ,isigojwana njll.	**ubude** • Meda ubude babafundi ngetheyipu yokumeda (jamiselaizandla ngaetheyiphu yokumeda

OKUMUMETHWEKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
4.3 **Ubungako/ubudisi** Sebenza ngokumadanisa ngokuphathekako begodu nokuhlela izinto ngemihlobo ngokusebenzisa ilwazi magama eliofaneleko ukuhlathulula okulandelako: a) Lula/budisi b) Ludlana / budisana c) Ragela phambili lokha nakudlalwa umdlalo wesanda namanzi			**Ubudisi** • Ethula umqondo wobudisi ngokumadanisa ubudisi bezinto ezihlukahlukeneko isb. - Lula/budisi - Ludlana / budisana • Qinisa ubudisi (ludlana / budisana)	
4.4 **Umthamo/Ivolumu** Sebenza ngokumadanisa ngokuphathekako begodu nokuhlela izinto ngemihlobo ngokusebenzisa ilwazi magama eliofaneleko ukuhlathulula okulandelako: a) Nganalitho , zeleko b) Nengi / ncani c) ncani kuna / nengi kuna d) Ragela phambili lokha nakudlalwa ngamanzi nangesanda.			**Umthamo/ivolumu** • Ethula umqondo wokumeda umthamo ngokumadanisa bona iimumathi ezihklukileko zithath umthamo ongangani - Nganalitho / zeleko - Nengi kuna/ ncani kuna • Ragela phambili ngesikhathi sokudlala ngamanzi begodu nangesikhathi sokudlala esandeni.	

IIMBALO ZEGREYIDI R 5. UKUPHATHWA KWELWAZI				
OKUMUMETHWEKO	**ITHEMU 1**	**ITHEMU 2**	**ITHEMU 3**	**ITHEMU 4**
5.1 **Ukubuthelela nokuhlela izinto ngemihlobo** **Buthelela idatha** Buthelela izinto ezithintekako zemihlobo efanakofanako (ayedwa begodu/ namkha njengelunga lesiqhema) isb.amakari ali-10, amajamo ali-10 **Ukuhlela idatha** Hlela izinto ezithintekako ukuya ngakunye okuphawulekako isib. Ubukhulu bekari.	• Ethula umqondo wokuphatha idatha ngokubuthelela idatha yokobana bangaki abesana begodu bangaki abentazana abangetlasini. • Hlela idatha ngokuvumela abafundi bona bajame ereyini labesana namkha labentazana	• Buthelela izinto (amagatja wobukhulu obuhlukeneko) • Hlela izinto ezibuthelelweko (amagatja wobukhulu obuhlukeneko)	• Buza umbuzo: “ Kghani amabizo anamaledere asithandathu aqakathekille na? • Buthelela idatha ukuphendula imibuzo le ngokusebenzisa amakarada wamabizo wabafundi • Hlela amakarada wamabizo ukuya ngenomboro yamaledere walelo nalelobizo.	• Sebenzisa itjhadi yamalanga wamaBeletho ukuthola bona bobani ababelethwe ngenyanga yiphi • Buthelela ilwazi ebafundini ukuthola umbala wedaka lokudlala elizokusetjenziswa ngeveke elandelako. Isb, ohlaza sasibhakabhaka, otjheli , ohlaza njll Buthelela idatha (Ngimuphi umhlobo weenkhwelo abafundi abawusebenzisako nabeza esikolweni) • Hlela idatha ngokuya ngeenyanga ezifaneleko zamabeletho wabafundi. • Omunye nomunye umfundi ukhetha ibhlogo linye elijamele umbala awukhethileko wedaka lokudlala leveke. • Hlela idatha ebuthelelweko (abafundi abakhamba ngeenyawo, abeza ngeteksi, ngemodere yabazali bakhe nalabo abeza ngebhesi.)
5.2 **Ukujamiselela ibuthelelo lezinto elihlelekileko.** **(Gwala amagrafu ukutjengisa idatha.** Gwala isithombe njengerekhodo lezinto ezibuthelelweko)	• Yenza isitjengiso segrafu esibonisa idatha usebenzisa amabhlogo namkha amajamo	• Gwala igrafu yezinto ezibuthelelweko (amagatja wobukhulu obuhlukeneko)	• Gwala igrafu ngokunamathisela lelo nalelo karada lebizo ngaphasi kwekholomu elifaneleko	• Gwala igrafu ejamile amalanga wamabeletho kienye nenye inyanga • Sebenzisa izinto zamambala ukwenza igrafu njemgamabhlogo, amakhyubhu abuthelelweko, iLego, nofana amabhlogo we Duplo ajamele imibala yehlama yokudlala ohlele ukuyenza isib. Hlaza sasibhakabhaka, tjheli, nokuhlaza. • Gwala igrafu yeenthombe ejamele abafundi abakhamba ngeenyawo, abeza ngeteksi, ngemodere yabazali bakhe nalabo abeza ngebhesi.

OKUMUMETHWEKO	ITHEMU 1	ITHEMU 2	ITHEMU 3	ITHEMU 4
5.3 **Coca bewubike ngokuhlelwa kwezinto ezibuthelelweko** **Funda begodu uhlathulule amagrafu** Phendula imibuzo esekelwe esithombeni sakhe namkha ezintweni zakhe ezihlukaniswe ngemihlobo (isib. “Makari amangaki amakhulu owagwalileko? Ngimaphi amakari amanengi, amakhulu nofana amakari amancani?	• Ukufunda nokuhlathulula idatha ngokusebenzisa ibumba lokudlala ukwenza isijamiselo senani labentazana nabesana bangetlasini.	• Ukufunda nokuhlathulula igrafu kusetjenziswa imibuzo	• Ukufunda nokuhlathulula idatha ngokubala amakarada weenomboro kelinye nelinye ikholomu nokufinyelela esiquntweni.	• Ukufunda nokuhlathulula amagrafu kusetjenziswa imibuzo ukuthola bona ngiyiphi inyanga enamalanga wokubelethwa amanengi. • Ukuya ngokukhetha kwabafundi, umbala wehlama yokudlala weveke uzakuba tjheli. • Funda nokuhlathulula amagrafu (bangaki abakhambako, abeze ngeteksi, ibhesi, njll.)

3.5 AMANOTHI ATLHADLHULA OKUMUMETHWEKO EGREYIDINI R

IGREYIDI R IIMBALO: ITHEMU 1			
Iveke 1 **Ukuzijayeza**	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyiosiweko**	**Ukulinganisa ubude besikhathi**
4.1 **Isikhathi**	**Ukulandelanisa izehlakalo ezizibuyelelako ebuphilweni bakho bangamalanga** • Ukwethula Ihlelo Langamalanga - Ukuthuthukisa ukulandelana kwezehlakalo ngelanga elilodwa - Iinthombe ziyakhangiswa kusuka ngesinceleni ukuya ngakwesokudla. - Umrholi welanga ukhambisa utjhobi okhambako kusukela ngesinceleni ukuya ngakwesokudla njengoba imisebenzi yangamalanga iragela phambili. - Abafundi balemuka ukulandelana kwezehlakalo emini.	Ihlelo langamalanga likhonjiswe ngendlela yeenthombe	Ngamalanga

IHLELO LANGAMALANGA ELIPHAKANYISIWEKO










AANKOMS	Iregista, amalanga wamabeletho', ubujamo bezulu, iindaba.	Ukurholwa ngutitjhere imisetjenzana yangetlasini, UbuKghwari ObuBonakalako nokudlala utjhaphulukile ngetlasini	Ukubutha	Ukurholwa ngutitjhere limisetjenzana yangetlasini,	Ukuya ngendlwaneni kwangamalanga



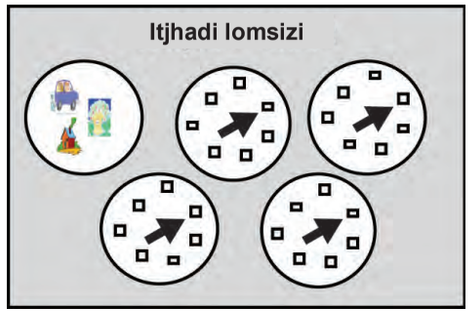





Isikhathi seenqabuli	Ukudlala utjhaphulukile ngaphandle noku Butha / nokuhlwengisa	Ukuya ngendlwaneni kwangamalanga	Ukurholwa ngutitjhere imisetjenzana yangetlasini nendatjana	Ukuphumula	Ukukhamba

Iveke 1 Ukuzijayeza	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyiosiweko**	**Ukulinganisa ubude besikhathi**
Tjheja: • Ukuthulwa kokumumethweko kuzakulawulwa sikhathi esinikelweko Ehlelweni Langamalanga. • Ihlelo Langamalanga liyatjhuguluka, isibonelo, Ukuya ngendlwaneni kwangamalanga kungatjhidiselwa eenkathini ezihlukahlukeneko kuye ngokobujamo nendawo lapho isikolo leso sikhona. • Khangisa ngawowoke amatjhadi wendlela yekambiso yangamalanga kwaphela lokha nasele athuliwe. • ikholomu lamanothi wokuhlathulula alikatlolwa ngokulandelana kwemisebenzi ngelanga, kodwana ngokuya ngalokho okumumethweko. Ngalokho ke kufanele ukhethe bona umsebenzi othile uzakwenziwa ngaliphi ilanga. • Kezinye iimveke kunemisebenzana edlulako kwemihlanu. Lokhu kwenzelwe kuphela bona ube nemisebenzi elingeneko ongakhetha kiyo begodu akutjho ukuthi kufanele uyenze yoke imisebenzi efakiweko.			
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro**	• **Thula ukuya ngendlwaneni kwangamalanga** - Thuthukisa ilemuko lokulandelanisa / ukurhemisa ukuya ngendlwaneni kwangamalanga isib. (thoma ngokusebenzisa indlwana encani , bese uhlamba izandla, vala ipompi bese usula izandla njll). - Thuthukisa ilemuko leenomboro sikhundla isib. uLulu ngowokuthoma, uJuda ngowesibili njll.	Isibha , itjhila lokuhlamba Iindlwana zokuphumela Amanzi agijimako	Ngemva kokuthi ukuya ngendlwaneni kwangamalanga sele kuthuliwe, umsetjenzana lo wenziwa ngamalanga

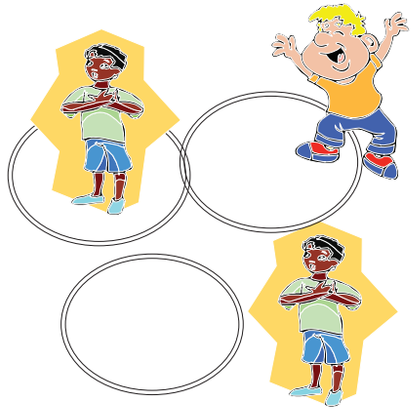
Iveke 1 **Ukuzijayeza**	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
linhloko	**Amanothi wokutlhadlhula**	**linsetjenziswa eziphakanyiosiweko**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibobusontathu (3-D)**	• **Ukwethula itjhadi lokubutha nokuhlwengisa** - Ukwakha iinqhenyana ezincani zokusebenza. - Ukuthuthukisa ukurhemisa nokuhlela ngemihlobo kweensetjenziswa. Hlukanisa inani labafundi ngetlasini lakho ngokuya ngokweendawo ezibunane zokuhlwengeka. Esinye nesinye isiqhema kufanele sithathe isiqinto sokuziphendulela ekuhlwengiseni indawo ngokudhlegana, njalo ngeveke. Hlathulula, hlukanisa ngemihlobo, umadanise izinto ezibusontathu (3-D) ngokuya: • ngobukhulu • ngombala • ngezinto ezigedekako • ngezinto ezitjhelelako	**Itjhadi lokubutha nokuhlwengisa** Hlanza immumathi zepende nama bhratjhi Butha begodu uhlwengise ihugwana yeencwadi Paka ususe amabhlogo Thanyela iphasi / ifluru Butha begodu uhlwengise ihugwana yendlu Paka ususe amaphazeli Butha begodu uhlwengise itafula lezobukghwari Sula amatafula ahlwengeke.	Ngemva kokuthi ukubutha nokuhlwengisa sele kuthuliwe, umsetjenzana lo wenziwa ngamalanga .

Iveke 1 Ukuzijayeza	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyiosiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Thula itjhadi lomsizi nendlela / ukulandelana iinqabuli okufanele ziphakelwe ngayo** **Linganisa bewubale izinto ukuthuthukisa inomboromqondo ngoku:** - Itjhadi lomsizi lisetjenziselwa ukuthola umsizi welanga okufanele athlogomele itafula ngesikhathi sokuqabula. - Iindulungu ezi 5 ezisetjhadini lomsizi zijamele iinqhema ezihlanu okuhlukaniswe ngazo abafundi, isibonelo, isiqhema sezibovu, isiqhema sokuhlaza sasibhakabhakahe, isiqhema sokusarulani, isiqhema sezilihlaza nesiqhema sezokusalamune. Ungasebenzisa godu neenthelo ezahlukahlukeneko / iinlwana / iinkhwelo, njll. - Itshwayo lomfundi ngamunye lifakwa ngaphakathi kwendulungu akiyo. - Ukujikisa utjhobi obotjhelelwe phakathi nendawo endulungwini ngayinye kuzakutjho bona umrholi ngubani esiqhemeni. Kuyadhlegwana ngamalanga ngokuba mrholi wesiqhema ukwenzela bona omunye nomunye umfundi alithole ithuba lokuba mdosi phambili / mrholi wesiqhema. - Umrholi wesiqhema ubala inomboro yabafundi abakhona esiqhemeni nezitja zokudla ngokuya ngenomboro yabafundi abakhona esiqhemeni sakhe ngelanga lelo.(kunye nakunye okukhambelanako).	**Itjhadi lomsizi**  	Ngemva kokuthi itjhadi lomsizi sele lithuliwe, iinqabuli ziphakelwa ngendlela le ngamalanga.
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula , ukubona nokutjho ngamagama ubujamo obubusobubili na /nofana iinthombe ezingetlasini** - **Amatshwayo wabafundi** • **Vumela abafundi ngamunye bona bakhethe amakarada wamatshwayo okungewabo.** - Lungisa indawo yokukhangisa ngobuciko bezobukghwari kube netshwayo lomunye nomunye umfundi (isithombe nofana umfanekiso). - Namathisela itshwayo elokhareni yomunye nomunye umfundi. - Vumela abafundi bona bakhombe amalokhari wabo ngokuwafanisa namatshwayo wabo. - Kunupela amatshwayo anamagama ezambathweni zabafundi. - Abafundi babona amatshwayo wabo newabangani babo ngokudlala imidlalo ezakukhuthaza abafundi bona babone amakarada wamatshwayo ahlukahlukeneko isib. Abafundi bahlala benze indulungu utitjhere akhangise ngamatshwayo woke begodu abawe abafundi bona bakhethe amatshwayo wabo. - Iinthombe ezincani zabafundi zingasetjenziswa nazo njengamakarada wamatshwayo, lokha nazikhona. - **Igama letlasi** • **Khuphula umqondo wokobana abafundi bangabesiqhema esisodwa esikhulu ngokwethula igama letlasi isib ngokusebenzisa isithombe – “Itlasi lakanoMpopi we Bhere”.** Abafundi kufanele bazi negama lakatitjhere wabo.	Amakarada anamatshwayo womfundi ngamunye. Yenza amakarada ngeenthombe zamatshwayo. Amalokhara, amabhoksi nofana iinhugu magega neboda kufanele zitshwaywe ngetshwayo lomfundi. Amalebula wamaGreyidi R: Isithombe setlasi esibekwa emnyango. Ilebula elinebizo lakatitjhere nesibongo	Lokha abafundi nabafikako ngelanga lokuthoma’.

Iveke 1 Ukuzijayeza	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyiosiweko**	**Ukulinganisa ubude besikhathi**
Tjheja: • Khangisa **itshwayo / isithombe** somfundi kuphela eenyangeni zokuthoma ezi 3 zonyaka. • Khangisa **itshwayo / isithombe begodu negama** lomfundi eenyangeni ezilandelako ezi 3. • Khangisa **igama lomfundi** kuphela elebuleni eenyangeni ezisi-6 zokugcina zonyaka. • Lisa / tjhiya elisemnyango unyaka woke. • Ilebula enegama lakatitjhere. • Ilebula etjengisa bona yiGreyidi R			

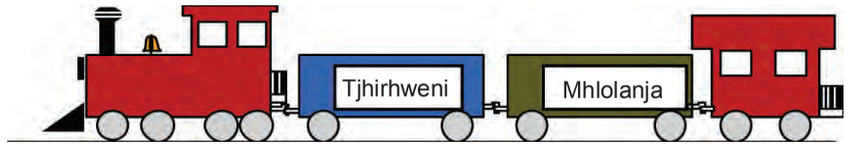
Iveke 2 Ukuzijayeza	Isikhathi Sokufundisa Esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	**Linganisa begodu ubale izinto zangamalanga ngokuthembeka** **Ukubala kwangamalanga** • Ukubala okungakahleleki /ukiubala ngegido kusuka ku ku 1-5 • Ukucula amaculo weenomboro nemilolozelo Nanyana abafundi banganawo umqondo weenomboro lokha nabangena eGreyidini R, kufanele bona bakhuthazwe bona bavume imilolozelo neengoma zeenomboro begodu benze ukubala okungakahleleki ngamalanga.	Amaculo nemilolozelo yeenomboro	Ngamalanga

Iveke 2 Ukuzijayeza	Isikhathi Sokufundisa Esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
linhloko	**Amanothi atlhadlhulako.**	**linsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro**	**Madanisa bona ngiliphi lamabuthelelo amabili wezinto onikelwe lona elikhulu nelincani** • **Thula/Yazisa umqondo wokukhulu nokuncani** **Okuphathelene nokusikinyeka komzimba** - Abafundi bathola umqondo wokuthi kukhulu nokuthi kuncani ngokutshopha imizimba yabo bazenze babe bancani ngendlela okukghoneka ngayo begodu bazithabulule babe bade / bakhulu ngndlela abangakghona ngayo. - Abafundi abamadanise izandla zabo nezabangani babo ukubona bona ngezakabani izandla ezikulu nofana ezincani. - Madanisa isandla sakatitjhere nesomfundi. - Madanisa umkhono katitjhere nowomfundi. **Hlathulula, hlela ngemihlobo begodu umadanise izinto ezibusontathu (3-D) nobujamo obubusobubili (2-D) kuya ngama sayizi** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Yenza iimbholo ezikulu nezincani ngehlama yokudlala. - Thola izinto ezikulu nezincani ngetlasini. Merega / tshwaya izinto ezikulu ngeentikara ezibovu nezinto ezincani ngeentikara ezisarulani. Khulumani ngama sayizi ahlukahlukeneko wezinto. - Hlela ngemihlobo izinto ezikulu nezincani ngokuya ngamasayizi. **Ezipheze ziphatheke usebenzise ubujamo obubusobubili (2-D)** Sebenzisa umqondo wokukhulu nokuncani ngesikhathi somsebenzi wobukghwari ngoku: - Ukufuna iinthombe zezinto ezikulu nezincani bese niyazisika. - Abafundi abagadangise izandla zabo bese bayazisika. Beka esinye phezu kwesinye. Bona ukuthi ngezakabani izandla ezikhulu nokuthi ngezakabani ezincani. - Hlukanisa iphepha ka 2. - Namathisela zoke izinto ezincani ehlangothini elinye lephepha nalezo ezikulu ngakelinye ihlangothi.	Abafundi Ihlama yokudlala Izinto ezikulu nezincani Abomagazini , amaphephandaba, imikhangiso , iinkere Amaphepha we A3 , Amakhrayoni	ilanga eli-1

Iveke 2 **Ukuzijayeza**	**Isikhathi Sokufundisa Esitjhukunyisiweko:** **Umsebenzi wetlasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeMbalo ngeveke)**		
linhloko	**Amanothi atlhadlhulako.**	**linsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	• **Hlathulula ubujamo / lndawo lapho kunezinto ezimbili nofana ngaphezulu lokha nawuyihlobanisa nomfundi ngaphakathi nangaphandle** **Okuphathelene nokusikinyeka komzimba** - Nikela umntwana ngamunye “iwupsi”. (Utitjhere utjengisa abafundi ngokwenza umdlalo nabo begodu atjho amagama: (“ngaphakathi no ngaphandle”). Kufanele beqele ngaphakathi kwe wupsi begodu beqele ngaphandle lokha utitjhere abanikela umlawo wokwenza njalo. - Jama ngenyawo elilodwa ngaphakathi kwe wupsi begodu elinye libe ngaphandle kwe wupsi. - Thatha ibhoksi bese abafundi beqela ngaphakathi nangaphandle kwalo begodu bacocisane ngokuthi lo oweqako weqela ngaphakathi / ngaphandle - Ukweqela ngaphakathi nangaphandle kwamatayere njengencenye yomsebenzi wokuthuthuka ngokomzimba. - Ukweqa bangene begodu baphume ngewupsini bavale amehlo. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi bona: - Bafake unodoli (umntwana) ngaphakathi begodu bamukhuphe ngekhothini / embhedeni - Baphosele ibholo / umgodlana wamabhontjisi ngaphakathi kwe wupsi / tayere. - Basebenzise idaka baligede balenze ibholo bese baligandelele libe sipara (indlwana yenyoni);geda iimbholo ezidlulako kwe yodwa (amaqanda) begodu uwafake ngaphakathi / uwakhuphe ngendlwaneni lokha utitjhere akulayela bona wenze njalo. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi bona: - Baqale isithombe babone bona bangathola izinto ezitjengisa umqondo othi ngaphakathi nothi ngaphandle. - Bazigwale bona bangaphakathi nofana naphandle kwe wupsi / bhavu / njll.	**Amawupsi** 	ilanga eli-1

Iveke 2 Ukuzijayeza	Isikhathi Sokufundisa Esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	**Ukwakha izinto ezibusontathu 3-D usebenzisa umatheriyali ophathekako** • **Hlola ikghonakalo yeendlela ezinengi zokwakha ngamabhlogo ngesikhathi sokudlala utjhaphulukile ngendlini** - Indima edlalwa ngutitjhere kulamula emdlalweni lo. - Hlola ikghonakalo yeendlela ezinengi zokwakha ngamabhlogo ngokululeka abafundi bona bakhe imakhiwo ethabaleleko (eplada),nemakhiwo ejame rwe (imibhotjhonbo), imakhiwo ephezulu nephasi - Hlela ngemihlobo begodu urhemise amabhlogo ahlukahlukeneko ngokumadanisa ubujamo obufanako. - Hlela ngemihlobo begodu urhemise imihlobo ehlukahlukeneko yamajamo ngokuwamadanisa ngokuqala ukulingana kwamasayizi. - Hlela ngemihlobo amabhlogo ngokuqala ukuthi likhulu nokuthi lincani. - Umfundi ngamunye uthola amabhlogo ama 3 abuncamane bese bawahlela ngezindlela ezinengi ngokungakghoneka ngakho isib. Ukuwa beka ngomuda ,ukuwapaka ngeendlela ezahlukahlukeneko. Abafundi banga madanisa begodu bakope imakhiwo yabanye begidu babelane amabhlogo ngababili ngababili ukubayelelisa khudlwana ngobujamo. - Thuthukisa ukubuthwa kwamabhlogo wokwakha ngendlela kuhlathululwe ngayo ngemva kwetjhelufu ngokumadanisa ngendlela kuhlathululwe ngayo.	Amabhlogo kufanele apakwe ematjhelufini, ngendlela amabhlogo ahlukahlukeneko ahleleke ngayo ngemva kwe tjhelufu. Iinsetjenziswa ezingezelelweko okufana nemidwebo emincani (iinthombe / ubuso obunamathiselwe ngama pheksi wezambatho) immodoro zokudlala, iinlwana zeplasini, amatshwayo wendlela njll. kufanele zenziwe zibekhona.	ilanga eli-1begodu ubuyelele ngesikhathi sokutjhaphuluka ngamalanga woke

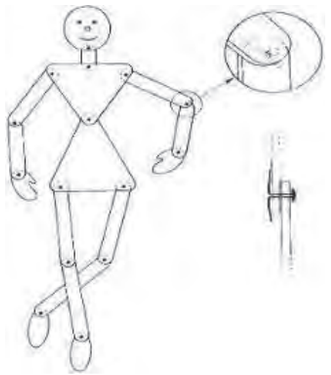
Iveke 2 **Ukuzijayeza**	**Isikhathi Sokufundisa Esitjhukunyisiweko:** **Umsebenzi wetlasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibobusontathu (3-D)**	• **Hlathulula, hlela ngemihlobo begodu umadanise izinto ngokuya ngemibala esisekelo, hlaza sasibhakabhaka, bovu nosarulani** Bonisa umbala munye kuphela ngesikhathi esisodwa. Ungahlobanisi umbala owodwa nobujamo obubodwa. Hlukanisa abafundi babe ziinqhema ezi 5. Nikela isiqhema ngasinye iwobhi lezinto ezibusontathu 3-D namabumbeko abobusobubili 2-D. - Utitjhere uthula umbala ngamunye ngokuphakamisa ikarada elinombala lowo afuna bona abafundi bawazi isib. Ohlaza sasibhakabhaka. Buyelela godu ngeminye imibala. - Abafundi abahlele ngemihlobo izinto ezibusontathu 3-D nobujamo obubusobubili 2-D ngokuya ngamakarada akhonjisiweko. **Okuphathelene nokusikinyeka komzimba** - Kunupela iindulungu ezimibala ehlukahlukeneko (bovu, sarulani, hlaza sasibhakabhaka) ezisikwe emakhadibhodini eemfubeni zabafundi. - Abafundi bazihlela ngokwabo ngokuya ngemibala ehlukahlukeneko. - Ngibonise iindlebe zakho begodu uzibale. Zingaki? Zinengi ngayinye? Asizibale. - Ngibonisa .....zakho.? **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Utitrjhere ubizela abafundi abahlanu ngaphambili bese anikele omunye nomunye into ebusontathu 3-D engafani neyabanye bona baziphathe ngezandla zabo. - Abanye abafundi basala bahlezi phasi eenqhemeni zabo kuthi amawobhi wezinto ezinobuso obuthathu 3 –D zibe phakathi neentafula zabo. - Umfundi wokuthoma ongaphambili uphakamisa into yakhe enobuso obuthathu 3-d isib. Ibhlogo elilihlaza sasibhakabhaka nofana indulungu esarulani enobujamo be Logi, nofana amaphazeli njll. - Abafundi abasematafuleni bahlela ngemihlobo izinto ezihlukahlukeneko ezinobuso obuthathu 3-D ngokuya ngokuthi umfundi uphakamise ini.	Imihlobohlobo ehlukahlukeneko yezinto ezibusontathu 3-D namajamo/iinthombe ezibusobubili 2-D ngetlasini isib. Iimvalo zamabhodlelo, amabhlogo we Lego, ubujamo bemibalabala bama Logi njll. Amakarada wemibala olihlaza sasibhakabhaka, obovu, osarulani Imihlobohlobo yobujamo obubusobabili 2-D nezinto ezibusontathu 3-D. Iindulungu ezisikwe emakhadibhodini alungiselelwe ngutitjhere, ezibovu , sarulani nezihlaza sasibhakabhaka. Imihlobohlobo yezinto ezibusontathu 3-D ezibuthelelwe ngaphambi kwesikhathi bezabekwa phakathi kwesiqhema ngasinye. **Iresebhe yamapende wemino**: 1 ikomitji yeflowuru 1 ikomitji yetjhukela 3 amathosi wedayi yokudla/ pende yepuyere 5 iinkomitji zamanzi abilako (rura amanzi angene kancani kancani)	ilanga eli-1
3.3 **Ubujamo obubusobubili (2-D)**	**Ezipheze ziphatheke usebenzise ubujamo obubusobubili (2-D** - Utitjhere ulungisa amapende wemino ngaphambi kwesikhathi. - Abafundi bagwala amajamo ependeni basebenzisa imino yabo. - Gandelela/gadangisa ubujamo obubusobubili 2-D begodu ubupende.		

Iveke 2 Ukuzijayeza	Isikhathi Sokufundisa Esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
4.1 Isikhathi	**Ukulandelanisa izehlakalo ezizibuyelelako zobuphilo bakhe bangamalanga** - Iinyanga zonyaka - Isikhathi • **Ukwethula itjhadi lamaLanga wamaBeletho** - Tlama itjhadi elimibalabala lamaLanga wamaBeletho ,isib isitimela esinamatrogisi ali 12 (ukwenzela inyanga enye nenye) – iinyanga zilandelaniswa kusukela ngesinceleni ukuya ngakwesokudla ematrogisini. Beka igama netshwayo / isithombe somunye nomunye umfundi enyangeni efaneleko yamabeletho. - Thuthukisa ilemuko lomqondo wesikhathi isib. iinyanga zonyaka ngokuvuma amagama weenyanga begodu bakhombe igama lenyanga. - Thuthukisa ilemuko letjhuba lokufunda isib. Khangisa ngelebula yenyanga ngayinye yonyaka ereyini linye kusukela ngesinceleni ukuya ngesidleni. - Abafundi abathole amatshwayo/iinthombe zabo begodu bafunde ngehloko bona ilanga labo lamabelethwa lingayiphi inyanga. - Bakhuthaze bona bazi iminyaka yabo. - Buyelela umsebenzi lo njalonjalo. **Itjhadi lamaLanga wamaBeletho** elineenyanga ezilitjhumi nambili zonyaka ezikhangiswe kusukela ngesinceleni ukuya ngakwesokudla. Umqhele nofana isithombe sekhekhe lelanga lamabeletho likhombisa amalanga wamabeletho adlulileko. Amalanga wamabeletho asezako akanawo umqhele nofana ikhekhe. *ingoma: zenzele itjhuni yakho* *“Tjhirhweni, Mhlolanja, Ntaka, Sihlabantangana, Mrhayili,* *Mgwengweni, Velabahlinze,Rhoboyi, Khukhulamungu* *Sewula, Sinyikhaba, Nobayeni*.		

Tjheja:

- Ilanga lamabeletho lomfundi limunyaya okhethekileko begodu kufanele kube nesikhathi esibekelwa ngeqadi sendulungu yamabeletho lapho itlasi loke livuma ingoma ethi Langa Elihle Lamabeletho begodu bawahle amahlandla ambalwa, batjengisa iminyaka abesana / abantazana abanayo.
- Umfundi ngamunye ngetlasini angagwala isithombe bese utitjhere angabuthelela yoke imigwalo ayenze incwadi yamalanga wamabeletho wabafundi abazabe bagidinga amalanga wabo wamabeletho.
- Utitjhere angenzela umfundi ogidinga ilanga lakhe lamabeletho umqhele begodu abafundi bangahlobisa ngomatheriyali owenziwe ngamaphepha abhiciweko lowo mqhele
- Imisetjenzana ebuyabuyelelwako emnyakeni woke lokha nakulilanga lamabeletho

Iveke 3 **Ukuzijayeza**	**Isikhathi Sokufundisa Esitjhukunyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	**Linganisa begodu ubale izinto zangamalanga ngokuthembeka** • **Ukubala ngehloko kwangamalanga** - Ukubala okungakahleleki / kwegido kusuka ku ku 1-5 - Ukuvuma iingoma nemilolozelo yeenomboro Nanyana abafundi bangahle bangabi nelwazi leenomboro lokha nabafika eGreyidini R, kufanele bakhuthazwe bona bavume imilolozelo neengoma zeenomboro begodu babale ngokungakahleleki ngamalanaga.	Iingoma nemilolozelo yeenomboro	Ngamalanga
	Ukubona nokubala izitho ezihlukahlukeneko zomzimba Ukubala okungakahleleki kusuka ku ku 1-5 **Okuphathelene nokusikinyeka komzimba (ukuhlanganisa NamaKghono Wepilo – ubuyena nehlalakuhle yomuntu qobo lakhe)** - Ukuthuthukisa ilemuko lenani lamalungu ahlukahlukeneko womzimba ngokuwabala. - Ngibonisa ipumulo yakho begodu uyibale. Uneempumulo ezingaki? Ngibonisa iindlebe zakho begodu uzibale. Zingaki ? Zinengi ngayinye? Asibale siragele phambili. - Ngbonisa izandla zakho. Zingaki? Asizibale. Yini okhunye okubonako ezandleni zaklho? Imino! Ungayibala? Asibale imino yesandla esisodwa: 1, 2,3,4,5. - Mangaki amehlo? Bala amehlo wakho neendlebe zakho. Thinta izindlebe namehlo wakho lokha ubalako, thoma ngezindlebe zakho. - Hlala eduze nomgani wakho ubale amalungu womzimba wakhe, kodwana athinte mantanzi bese uyawabala. Utitjhere uzakukhokhela ikambiso le, isib. Thinta indlebe yomngani wakho eyodwa; thinta enye indlebe; i/zibale: 1,2. Ziyalingana nezakho? Ragela phambili nomsebenzi lo. - Yitjho amalungu womzimba lapho umuntu nomuntu anelungu elilodwa isib ipumulo yinye, umlomo munye, isilevu sinye njll. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi bona: - Baziqale esibonibonini begodu bagadangise/ bazigwale. - Gwale ingaphandle lemizimba yabo ephephandabeni begodu bakgabise ngokufaneleko. Gwala umuda udlule phakathi naphakathi. - Sika iinthombe zamalungu ahlukahlukeneko womzimba kibo magazini nofana umkhangiso bese uqedelela ubuso. - Sika ubuso kibo magazine bese ugwala amalungu womzimba amanye angekho.	Ingoma/ umlolozelo womsikinyeko Amaphazeli / imidlalo ejamele abantu abahlukahlukeneko nemifanekiso yemizimba Imidlalo yamakarada Abafundi Isiboniboni eside ngokuzeleko Iphepha le A4 , amakhrayoni Abomagazini, izandiso, amaflaya, iinkere	ilanga eli-1

Iveke 3 Ukuzijayeza	Isikhathi Sokufundisa Esitjhukunyisiweko: Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.4 **Isimethri**	**Ukukhumbula umuda wesimethri /wokubanda phakathi kuye.** **Ukuthuthukisa ilemuko lokobana umzimba womuntu uhlukaniseke kabili/ unamahlangothi amabili.** **Okuphathelene nokusikinyeka komzimba** Gandelela umqondo wokuthi "ihlangothi linye/ihlangothi elinye" Utitjhere ukhuluma nabafundi ngengaphambili lomzimba nengemuva lomzimba kanye nengaphezulu nengaphasi lomzimba. **Vumela abafundi bona:** - Baziqale esibonibonini lapho bazakghona ukubona umzimba wabo woke. - Ukubona ukuthi ngiwaphi amalungu womzimba wabo asehlangothini linye akhona godu nangakelinye ihlangothi. - Bathinte amalungu wemizimba yabo njengoba balayelwa isib "Thinta izinzwani zakho, thinta iinyawo zakho, thinta imilenze yakho" .abafundi bangenza umsebenzi lo bavale amehlo. - Bathinte ilungu linye lomzimba wabo ngelinye ilungu lomzimbaisib "thinta idolo lakho ngepumulo yakho, njll" (nomsebenzana wokuphambanisa amalungu womzimba)	Abafundi  Isiboniboni esitjengisa ubude Utitjhere angenza isithombe esihlanganiswa ngeenkunupe ezihlukana kabili asebenzise ibhodi eqinileko	ilanga eli-1
3.2 **Izinto ezibusontathu (3-D)**	**Ukukhumbula , ukubona nokubiza ngamagama izinto ezinbusobuthathu 3-D ngetlasini** - **Iimbholo** • **Khumbula , bona begodu ubize ngamagama iimbholo** - Abafundi badlala ngeembholo begodu batjengise bebatjho zoke izinto ebangazenza ngebholo. Utitjhere ukhokhele iinkulumiswano ngokubuza imibuzo. - Ukubona zoke izinto ezigedekako isib. Batjengise amabhlogo begodu ubuze umbuzo: "Ucabanga bona ibhlogo lingagedeka? Asiboneni". - Geda zoke izinto begodu utjheje bona zigedeka njani isib. Amabhlege agedekela ngehlangothi linye kuphela. - Sebenzisa idaka / ihlama ukubumba iimbholo ezingagedeka ngesikhathi sokwenza imisebenzi yobukghwari (ukudlala ngokutjhaphuluka ngaphakathi). - Ngesikhathi sokukhamba, abafundi bangazama ukuvumela imizimba yabo bona igedeke ngokugedeka balele phasi nofana benze imizimba yabo bona ifane nebholo bese bayagedeka.	Izinto eziyindulungu isibonelo amalamune, ama-apula, iimbholos, amabhlegana anganalitho arondo (yenza iimbholo ngokusebenzisa umatheriyali ongabuye usetjenziswe godu isib iimbholo ezenziwe ngephephandaba elihlohlelwe ngaphakathi kwemikheyiza.) Izinto ezizinkwere isib amabhlogo. Iresebhe yehlama yokudlala: 1 ikomitji yeflowuru ½ ikomitji yetswayi 1 ikomitji yamanzi 2 amalebhula wetiye wamafutha wokupheka Amathosi ambalwa wedayi yokudla } Hlanganisa uumvango	ilanga eli-1

Iveke 3 Ukuzijayeza	Isikhathi Sokufundisa Esitjhukunyisiweko: Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula , ukubona nokutjho ngamagama ubujamo obubusobubili (2-D) ngetlasini neenthombeni** **- indulungu** • **Thula indulungu** Lokha nawuthula indulungu kokuthoma izinto ezisetjenziswako kufanele zifane poro nghakho koke (isayizi efanako, umbala ofanako, ubujamo obufanako) **Okuphathelene nokusikinyeka komzimba.** Utitjhere ugwala indulungu eflurwini / ehlabathini. Vumela abafundi bona bakhambe magega nomuda wangaphandle wendulungu bakhambe bathi , “Ngikhamba magega nendulungu....ngiyazungeleza ngiyazungeleza”. Vumela abafundi bona: - Babambane ngezandla benze indulungu. - Benze indulungu ngemizimba yabo. - Khambe ngaphakathi kwendulungu babe bavuma ingoma ethi ‘’Isikghwa somuribheyi”. - Bahlale phasi ngendulungwini badluliselane into isuke komunye iye komunye babe bacula “izambana elitjhisako lidlulise”. Umfundi osaphethe into leyo lokha ingoma nayiphelako kufanele akhambe ayokuhlala phakathi nendulungu.	Ingoma, “nakhu lapha sikhamba khona sizombeleza isikghwa semuribheyi”. Umdlalo, ‘izambana elitjhisako, lidlulise”.	ilanga eli-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Utitjhere utjengisa umfundi iwupsi begodu abahlathululele bona ubujamo lobu bubizwa ngokuthi yindulungu. Indulungu ayinawo amakhona. Vumela abafundi bona: - Bambe amawupsi abusontathu 3-D balokha bakhambisa imino yabo emawupsi. - Thola izinto ezibusontathu 3-D ngetlasini ezifana neendulungu ngobujamo. **Hlela ngemihlobo begodu umadanise izinto ezibusontathu 3-D ngokuya ngamasayizi nombala** Utitjhere unikela abafundi imihlobohlobo yezinto ezibusontathu 3-D namajamo abobusobubili 2-D ngamasayizi ahlukahlukeneko (ezikulu nezincani) nemibala (bovu, sarulani nohlaza sasibhakabhaka) okufana neembholo zetenesi , amamabula, iimbhaloni, njll Vumela abafundi bona: - Hlela izinto ngemihlobo zibe ngezi kulu nezi ncani. - Buthelela izinto ngemibala ehlukahlukeneko.	Iwupsi Izinto ezihlukahlukeneko ezizindulungu ezibusontathu 3-D okufana neembholo zetenesi, amamabula, nama bhaloni, njll. Ubujamo obubusobubili 2-D okufana neendulungu zamaplastiki ezisikiweko	

Iveke 3 **Ukuzijayeza**	**Isikhathi Sokufundisa Esitjhukunyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
4.1 **Isikhathi**	• **Thula Itjhadi Lobujamo Bezulu** a) Isikhathi b) Amalanga weveke c) Ukulandelana kwezehlakalo d) ukubala - Ubujamo bezulu bujamele iveke (yamalanga ama-5) usebenzise amakarada wamatshwayo isib amalanga ama 5 weveke arhenyiswe kusukela ngesinceleni ukuya ngesidleni usebenzise amatshwayo wobujamo bezulu.(bona isibonelo esingenzasi) - Ubujamo bezulu kufanele kusetjenzwe ngabo **ngamalanga.** - Utitjhere urhola abafundi bona bathole igama lelanga , idadamu nenyanga ngama fletjhi karada njengange dayagramini (ngokukhamba kwesikhathi abafundi banga thola begodu bakhangise amafletjhi karada ngokwabo). - Umrholi welanga uqala ubujamo bezulu ngaphandle begodu abelane lokho akutholileko nabanye abafundi isib. kunezulu-, kunamafu-, kunelanga. - Utitjhere ukhangisa ngalokho okutholiweko ngama fletjhi karada njengangedayagramini (ngokukhamba kwesikhathi abafundi banga khangisa iinthombe ngokwabo). - Ngokwenza nje, abafundi bafunda ngamalanga weveke namalanga wangepelaveke. - Bafunda ngokwanamhlanje, izolo, kusasa, njll. bangakacapheli. - Abafundi banikelwa amathuba amanengi wokubala kufikela ku ku 5. Ukubala amalanga lapho kunelanga khona, amalanga amakhaza, amalanga anomoya, njll. - Ukukhangisa ngamatshwayo wabafundi lokha nakukhona amalanga wamabeletho phakathi kweveke. - Khangisa ngananoma ngimuphi umsebenzi owenzekako phakathi kweveke isib. Ukuya esiqiwini seembandana (okujanyelwe sithombesesibandana)	**Itjhadi yobujamo bezulu** kufanele bujamele iveke yoke isib. Amalanga weveke arhemiswe kusuka ngesinceleni ukuya ngesidleni eenyangeni zokuthoma ezisi 6 begodu kusetjenzwe ngawo ngamalanga. Amafletjhi karada we: - Amalanga alikhomba weveke - Iinomboro 1-31 - Amagama weenyanga ezili 12 - Unyaka isib. 2012 - Amakarada anobujamo bezulu. Isib.  umoya  ilanga  izulu  amafu	Lokha itjhadi lobujamo bezulu sele lithuliwe, umsebenzi lo wenziwa ngamalanga. Fundisa abafundi ingoma yokufunda ngehloko amalanga weveke

Iveke 3 Ukuzijayeza	Isikhathi Sokufundisa Esitjhukunyisiweko: Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**

Isibonelo setjhadi lobujamo bezulu

Itjhadi lobujamo bezuliu

Mgwengweni 2012

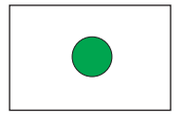
uSondo	uMvulo	uLesibili	uLesithathu	uLesine	uLesihlanu	uMgqibelo
12	13	14	15	16	17	18
						

4.1 **Isikhathi**	**Ukulandelanisa izehlakalo ezizibuyelelako zobuphilo bakhe bangamalanga** • **Amalanga weveke** Utitjhere ufundisa abafundi ingoma nofana umlolozelo omayelana namalanga weveke. Buyelela ngamalanga njengoba kukhulunyiswana ngetjhadi lobujamo bezulu. *Ingoma:* *"Kunamalanga alikhomba, kunamalanga alikhomba, kunamalanga alikhomba evekeni.* *"uSondo,uMvulo, uLesibili, uLesithathu, uLesine, uLesihlanu, uMgqibelo." (X2)*	Ingoma: amalanga weveke , nofana bazitlamele ingoma yabo yamalanga weveke	
	• **Thula itjhadi utjengise iinkathi zonyaka ezine utjengise nge tjhobi:** - Sikisiphi isikhathi sonyaka njenga nje? - Ngisiphi isikhathi sonyaka esiqeda ukudlula? begodu - Ngisiphi isikhathi sonyaka esilandelako? - Khangisa isithombe sesikhathi sonyaka sanje sikhambisane nenyanga efaneleko isib. uTjhirhweni kufika kuNtaka ungakhangisa ngeenthombe zehlobo.	Amakarada amane ahlukahlukeneko anesithombe sasinye seenkathi zonyaka. **linkathi zonyaka**  Somer Herfs Lente Winter	Tjhugulula lokha iinkathi zonyaka zitjhuguluka

Tjheja:

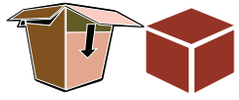
Yoke imiqondo emitjha kufanele yethulwe ngokulandela iingaba lezi:

- Iingaba zokuphathelene nokusikinyeka komzimba (ukuthola imiqondo ngomzimba nemizwa)
- Iingaba eziphathekako (sebenzisa izinto ezibusontathu 3-D).
- Isigaba sezipheze ziphatheke (ukulinganisa izinto ezibusontathu 3-D ephepheni. isib imigwalo, ukumadanisa iinthombe, imidlalo yamakarada, amaphepha wokusebenzela, njll.) Woke amajamo "athabaleleko" athathwa njenga busobubili.

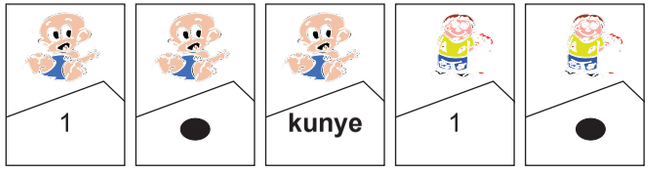
Iveke 4 Thoma ngokwethula ennomborweni.	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
linhloko	**Amanothi atlhadlhulako.**	**linsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	**Ukubona nokuhlathulula iinomboro ezizeleko** • **Ukuthula ihlathululo yenomboro u ku- 1** Ukubala komlomo okungakahlelerki kwangamalanga kusuka ku ku 1-5 **Okuphathelene nokusikinyeka komzimba.** Vumela abafundi bona: - Ukukhomba amalungu womzimba isib. Ipumulo yinye. - Vuma ngehloko kanye, gadanga phasi kanye, yeqa kanye njll. - Phakamisa umuno mu -1, isandla si- 1, inyawo li -1 njll. - Abakhe inomboro u ku - 1 ngemizimba yabo. - Abatlole inomboro u ku- 1 emoyeni / ehlabathini. - Wahla kanye kuphela	lingoma nemilolozelo weenomboro Abafundi	Ilanga li-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi bona: - Ukubona nanyana ngiyiphi into ekhamba yodwa ngetlasini isib. Ibhlogo elilodwa lokwakha. - Yakha inomboro u ku -1 ngedaka / ngehlama yokudlala	Izinto ezingetlasini nebhodulukweni	
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke zobuso obubili (2-D) Vumela abafundi bona: - Ukubona isithombe esinento eyodwa emafletjhi karadeni ahlukahlukeneko. - Metjha amakarada weenthombe anesithombe esisodwa namakarada anethosi/dothi elilodwa. - Ngasosoke isikhathi hlanganisa ikarada lesithombe nekarada ledothi nenomboro elinganako yezinto zokubala isib. Paka inomboro/ inani elilinganako lezinto zokubala edothini ngalinye. - Ngemva kokwethula inomboro u ku -1 utitjhere ukhangisa amafletjhi karada magega neboda bona abafundi bawabone ngamalanga.	**Isithombe sento ye-1**  Into yi-1 yokubala yomfundi munye Imihlobohlobo yamafletjhi karada weenthombe Amafletjhi karada wamaqatjhazi / wamadothi	

Iveke 4 **Thoma ngokwethula ennomborweni.**	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
linhloko	**Amanothi atlhadlhulako.**	**linsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
2.1 **Amaphetheni weJiyomethri**	• **Ukubona amaphetheni ebhodulukweni nezambathweni zabafundi** Vumela abafundi bona ba: - Khulume ngamaphetheni abawabona ebhodulukweni nezambathwe nini zabo: - Ngimaphi amaphetheni anemida begodu ngiwaphi amabhlogo? - Amaphetheni ayafana woke na, yini umehliko begodu yini okufanako? - Yini okwenza iphetheni? - Iphetheni iyabuyabuyelela –imida /amabhlogo / ubujamo **Okuphathelene nokusikinyeka komzimba** **Kopulula begodu ungezelele amaphetheni** Utitjhere ubophelela iribhoni ebovu nehlaza sasibhakabhaka emikhonweni yabafundi abane. Wakha iphetheni ngokubeka umfundi uneribhoni ebovu ngaphambili kwetlasi bese kulandele umfundi weribhoni ehlaza sasibhakabhaka, bese kuze weribhoni ebovu godu. Abafundi abaqedelele iphetheni.	   Amariboni abovu nahlaza sasibhakabhaka	ilanga eli-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Utitjhere utlama iphetheni ngeemvalo zamabhodlhelo ezi 3 ezihlaza sasibhakabhaka neemvalo zamabhodlhelo ezi 3 ezibovu. - Abafundi abakopulule iphetheni yakatitjhere.	Umfundi ngamunye uthola iimvalo zamabhodlhelo ezibovu nezihlaza sasibhakabhaka	

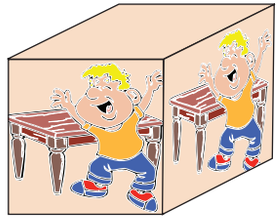
Iveke 4 Thoma ngokwethula ennomborweni.	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)** **3.3** **Ubujamo obubusobubili (2-D)**	**Ukukhumbula , ukubona nokutjho ngamagama izinto ezibusontathu (3-D) nobujamo obubusobubili (2-D) ngetlasini neenthombeni.** **Ukuthuthukisa ikghono lokuhlukanisa phakathi kwezinto ezi "ngaphambili nezingemuva"** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Utitjhere ubeka izinto ezihlukahlukeneko ngetlasini nangaphandle ekundla yokudlala. Vumela abafundi bona: - Tjengise izinto ezihlukahlukeneko ngetlasini isib. Izinto ezenziwe ngekhuni, izinto ezibovu, izinto ezenziwe ngeplastiki njll. - Funa izinto ezithile ngetlasini lokha utitjhere abanikela iinlayelo isib. Ibholo elisemabhlogweni wesimumathi sama bhlogo we Lego,ikoloyana yokudlala ngekasini leenkomitji, ipensela ngebhlegeni njll. - Funa izinto ezifanako isib. Iinkunupe ezirondo hlangana neenkunupe ezizinkwere, umabula obovu hlangana namamabula amibalabala njll. - Hlela ngemihlobo izinto ngokuya ngemihlobo yazo isib. Isayizi, umbala, ukuthinteka nofana ubujamo.. - Dlala umdlalo , "Ngiyayibona ngamehlo wami amancani, into erondo....." - Funa izinto ezithile ebhodulukweni lokha utitjhere nakabalayelako isib inyoni emthini, iribhoni emthini, ithuthumbo elihle, ubutjhontjhwani phezu kwe bhlari, njll - Ekhaya abafundi kufanele bakhuthazwe bona bakhuphe zoke iingobho nofana imikhwa nofana iimforogo elayini.	Izinto ezihlukahlukeneko ngetlasini nebhodulukweni	ilanga eli-1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke zobuso obubili (2-D) Tjengisa abafundi isithombe begodu ubabuze imibuzo ngesithombe leso. Isibonelo: - "Umntazanyana uphethe ini esandleni sakhe?" - "Bangaki abantu abangesikepeni?" njll. - Ukwakha ama PHAZELI nokudlala amadomino weenthombe kufanele bona abafundi bathuthukise umqondo wokubona into eqakathekileko esithombeni esihlangahlangeneko	Esinye nesinye isithombe esikhulu okungakhulunywa ngaso. (Iphostara) **Amaphazela** 	

Iveke 4 Thoma ngokwethula ennomborweni.	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	**Ukukhumbula, ukubona nokutjho ngamagama izinto ezibusontathu (3-D) kuhlola umqondo wobujamo namasayizi wamabhoksi** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi bona: - Beqele ngaphakathi nangaphandle kwe bhoksi elikhulu lekhadbhoksi. - Bahlole ingaphakathi lebhoksi ngokukhuluma ngalokho abakubona ngaphakathi kwe bhoksi isib. Ibhoksi line fluru/ iphasi/,amahlangothi amane/ / amaboda nesivalo. - Vula ibhoksi ukubona ubujamo balo **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Ukusebenzisa amabhoksi ukwakha isakhiwo isib. indlu, igaratjhi (sebenzisa ngesikhathi Sobukghwari Obubonakalako ukwakha umakhiwo ngemihlobohlobo yamabhoksi anamasayizi ahlukahlukeneko) - Nikela abafundi izinto ezahlukahlukeneko okufana namakinobho, amabhoksi weyunifiksi, iimvalo zamabhodlhelo, iinkunupana zeplastiki zokubopha uburotho. Vumela abafundi bona: - Hlela izinto ngemihlobo zibe ziinqhema zehlobo elifanako. - Thole bona umehluko uyini phakathi kwezinto - Thole bona ngiziphi izinto eziziinkwere begodu ngiziphi ezirondo - Hlela ngemihlobo izinto ngokuya ngemibala efanako	 Amabhoksi ahlukahlukeneko amakhulu namancani (isiqandisi esinganalitho namabhoksi wesitofu)  Amabhlogo weyunifiksi , iimvalo zamabhodlhelo, iinkunupana zeplastiki zokubopha uburotho (abafundi bangeza nazo kusuka ekhaya)	Ilanga li-1 ilanga eli-1

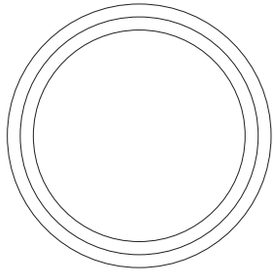
Iveke 4 Thoma ngokwethula ennomborweni.	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
linhloko	**Amanothi atlhadlhulako.**	**linsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.3 **Ubujamo obubusobubili** **(2-D)**	**Ukukhumbula , ukubona nokutjho ngamagama ubujamo obubusobubili 2-D ngetlasini neenthombeni** - **uncantathu** **Yethula uncantathu** Lokha nawethula uncantathu kokuthoma, izinto ezisetjenziswako kufanele zifane poro ngakho koke (isayizi efanako, umbala ofanako, ubujamo obufanako). Uncantathu unamahlangothi amathathu anqophileko. Lokhu kubizwa ngokuthi nguncantathu. **Okuphathelene nokusikinyeka komzimba.** Vumela abafundi bona: - Benza amajamo ngemizimba yabo isib abafundi aba-3 benza uncantathu ngemizimba yabo. - Benza aboncantathu basebenzisa imino yabo. - Benza amajamo waboncantathu ngeentokana zewulu nofana ihlama yokudlala. - Khamba magega nobujamo baboncantathu. Lokha nabakhambako, abathi, 'Ngikhamba magega noncantathu, kunye, kubili, kuthathu amahlangothi nofana kunye, kubili, kuthathu amahugu (amahugu). - Yizwa amajamo. Sebenzisa ubujamo besayizi obukhulu/ obuyikakaramba nofana beka ubujamo obuhlukahlukeneko ngaphakathyi "komgodlana ophethe izinto okufanele umfundi aqagele ngokuzwa/ngokuthinti bona ubambe ini " umfundi "uzwa" ubujamo ngaphakathi kwesikhwama begodu amadanise begodu abumadanise nesede yamakarada amadanako (amakarada agwalwe ubujamo). - Gwala ubujamo bakancantathu emoyeni, phasi/eflurini (itjhogo) bese ekugcineni bagwale ephepheni. **Hlathulula ,hlela ngeengaba begodu umadanise izinto ezibusontathu 3-D nobujamo obubusobubili 2-D** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi bona ba: - Hlele ngemihlobo ubujamo bama Logi ukuya ngobujamo (iindulungu naboncantathu), isayizi (okukhulu nokuncani) nombala (bovu, ezisarulani, hlaza sasibhakabhaka) - Bafune ubujamo obuboncantathu ngetlasini nasebhodulukweni.	Imidlalo yamakarada ethuthukisa ukukhumbula amajamo. Iwulu nofana ihlama yokudlala "Umgodlana ophethe izinto okufanele umfundi afunisele ngokuzwa / ngokuthinta bona ubambe ini" (Isikhwama setjhila esinerege phezulu) esiphethe ubujamo obuhlukahlukeneko bejiyomethri. Ukumadanisa isede yamakarada nobujamo obugwalwe kiwo. Amaphepha we A4 namakhrayoni. Ubujamo be Logi Izinto ngetlasini nebhodulukweni	ilanga eli-1

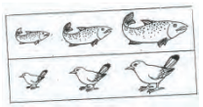
Iveke 5	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	**Ukuhlathulula nokubona iinomboro ezizeleko** • **Ukugandelela ilwazi abalizuze evekeni 4 okufaka hlangana inomboro u ku -1.** **Komlomo:** Ukubala okungakahlelwa kusuka ku ku -1 ukuya ku ku- 5 **Okuphathelene nokusikinyeka komzimba.** Vumela abafundi bona: - Benze igido elenziwa ngamalungu womzimba isib wahla ngezandla kanye. - Utitjhere ubatjengisa ifletjhi karada elijamele inomboro u ku -1 bese abafundi baphakamisa umuno mu- 1 isandla si-1, inyawo li- 1 njll.	Iingoma nemilolozelo yeenomboro **Isi-thombe sento 1** ● **1** **kunye**	Ilanga li-1. ilanga eli-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi bona ba: - Thole into eyodwa ngetlasini. - Bale into yokubala eyodwa.	Into eyodwa Into yokubala eyodwa	
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Metjhanisa isithombe esisodwa esinobujamo obuhlukahlukeneko nefletjhi karada elinedothi elilodwa/ qatjhaza elilodwa - Metjhanisa isithombe esinobujamo obuhlukahlukeneko nefletjhi karada elinedothi / neqatjhaza elinethswayo lenomboro u ku- 1. - Metjhanisa itshwayo lenomboro namafletjhikarada anamabizo weenomboro. - Yenza amaphazeli weenomboro begodu uvumele abafundi bona bawa metjhise isib .  	Amafletjhi karada ahlukahlukeneko anesithombe esisodwa, neqatjhazi elilodwa Ifletjhi karada elinetshwayo lenomboro negama lenomboro **Isi-thombe sento 1** ● **1** **kunye**	

Iveke 5	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.4 **Isimethri**	• **Qinisekisa ilemuko lokobana umzimba womuntu unamahlangothi amabili isib. "ihlangothi elilodwa" godu "nelinye ihlangothi" okurholela ku "langesinceleni ne langesidleni"** **Okuphathelene nokusikinyeka komzimba.** Utitjhere uhlathulula amahlangothi amabili womzimba womuntu. Vumela abafundi bona ba: - Jame ngomlenze owodwa, babuye godu bajame ngomunye. - Sikinyeke ngegido lokha nabezwa ibetho lerhatjharhatjha uye ngehlangothini elilodwa letlasi. - Lokha irhatjharhatjha nayithulako, abafundi batjhinga ngakwelinye ihlangothi letlasi. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Umfundi ngamunye unikelwa umgodla weembhontjisi. Vumela abafundi bona ba: - Beke imigodlana yeembhontjisi phasi eqadi kwabo. - Khambise umgodlana weembhontjisi uye ngakwelinye ihlangothi lomzimba wabo basebenzisa izinzwani zabo nezandla zabo njll - Beka umgodla weembhontjisi eflurini ngakelinye ihlangothi lemizimba yabo begodu bayisuse bayise ngakelinye ihlangothi. - Qinisekisa umqondo lo ngokuwuhlanganisa nobukghwari bokubona ngokuvumela abafundi bona bazenzele iinthombe zamaviyaviyani. (Bhinca iphepha phakathi; thontisela amathosi ahlukahlukeneko wepende phezu komuda obhinciweko; libhince phakathi bese urhatjha ipende ngokuhlikihla isithombe; livule bese utjheje / ubukele iviyaviyani; sika emudeni omagega –**iviyaviyani linamahlangothi amabili afanako)**	Amarhatjharhatjha angenziwa ekhaya–isimumathi esinesivalo, sifakwa amatjana amancani. Umfundi ngamunye uthola umgodlana wamabhontjisi.	ilanga eli-1
3.2 **Izinto ezibusontathu (3-D)**	**Ukukhumbula , ukubona nokutjho ngamagama izinto ezibusontathu (3-D)** **Ukwethula nokuhlola izinto ezigedekako** - Cocisanani ngobu "ndulungu / rondo" bezinto. Faka / Beka izinto ezimbalwa ezirondo ngemgodleni we "feli" Umgodlana ophethe izinto okufanele umfundi afunisele ngokuzwa / ngokuthinta bona ubambe ini" (Isikhwama setjhila esinerege phezulu). Abafundi bakhupha into ngakiyo bese bahlathulule uburondo / ubundulungu bayo. - Abafundi batjengisa bona izinto ezihlukahlukeneko zigedeka njani emehleleni ngokuphakamisa itafula ngeentina ezimbili.	" Umgodlana ophethe izinto okufanele umfundi afunisele ngokuzwa / ngokuthinta bona ubambe ini" (Isikhwama setjhila esinerege phezulu) Ngaphakathi kwesikhwama kune: Amasayizi ahlukahlukeneko weembholo, amamabula, amasilinda, amabhlegana anganalitho wesiselo esimakhaza, ubujamo beplastiki oburondo nofana iimvalo zamabhodlhelo zamaplastiki	ilanga eli-1

Iveke 5	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.1 Ubujamo, ukujayeza nokubukela	**Ubujamo bezinto ezimbili nofana ngaphezulu lokha nawuzimadanisa hlobanisa nomfundi** - **Ngaphambili / ngemuva** **Okuphathelene nokusikinyeka komzimba.** Utitjhere ukhetha abafundi ababili ngokusebenzisa umlolozelo wokubala: - Beka iintulo ezimbili ngaphambi kwetlasi. - Abafundi ababili laba batjengisa imiqondo **ngaphambili** na**ngemva** lokha utitjhere nakabalayelako isib. . o USiphob ujame phambi kwesitulo o UKali ujame ngemva kwesitulo - Lokha nasele aphumelele, utitjhere uphakamisa ifletjhi karada bese abafundi batjengisa umsikinyeko basebenzisa iintulo zabo. - ”Lokhu kungatjengiswa godu ngokusebenzisa abafundi abathathu. o UAmosi ujame ngemva kwaka Sipho, kodwana uKali ujame phambi kuka Amosi. - Utitjhere unikela abafundi idayisi elikhulu elineenthombe ezihlukahlukeneko ezitjengisa “ngaphambi kwe na ngemva” zitlolwe ngeqadi isib. Jama ngaphambi komuntu weenhluthu ezide; jama ngemva komuntu owembethe ibhrugu; hlalani omunye emva komunye, njll. - Abafundi abadlale umdlalo eenqhemeni zabo ngokuphosa idayisi begodu benze umsikinyeko ozotjengiswa lidayisi lelo naliwako.	Iintulo Abafundi Amafletjhi karada nemisikinyeko ngaphambili nangemuva kwento.  	ilanga eli-1

Iveke 5	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	**Madanisa bona ngiyiphi eentweni ezimbili onikelwe zona e: Kudlwanyana nencazana** **• Ukuqinisekisa umqondo wokuthi kukhudlwana kuncazana** **Okuphathelene nokusikinyeka komzimba.** - Vumela abafundi: - Ukwenza imizimba yabo ibe mikhulu ngokulula imikhono yabo ibe ngehla keenhloko zabo. - Ukwenza imizimba yabo ibe mincani ngokugobana batjhinge phasi nangokutshopana. - Thola bona inja yikulu kune gundwana na. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Ngasosoke isikhathi beka okungasenani izinto ezimbili bona zimadaniswe. - Madanisa amasayizi ahlukahlukeneko wehlobo elilodwa lebhlogo,iimbholo, iimbhorodo, iinkunupe, itafula, iintulo njll begodu uthole bona ngiyiphi into e “kulu/ncanil, kudlwana/ncazana” nokuthi ” ekulu khulu/encani khulu”. - Yakha imakhiwo ngamabhlogo wokwakha begodu abafundi bamadanise bona ngowakabani umakhiwo omkhulu khulu nokuthi ngowakabani omncani khulu. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Madanisa iinthombe ezitjengisa umqondo wokuthi kukhulu/kuncani nokuthi kukhudlwana / kuncazana. - Ukusebenzisa umqondo we “kukhulu/kuncani” ngesikhathi sobukghwari bokutlama.	Isithombe sekhondlwana nenja (qinisekisa bona isithombe senja sikhudlwana kunesithombe sekhondlwana) Izinto ngetlasini okufana namabhlogo, iimbholo, amabhorodo, iinkunupe, imincamo, iingojwana, amapheksi, amabhoksi womlilo, amabhlegana, amapropo, iinqephe, iimvalo zamabhodlhelo, njll. Iinthombe ezitjengisa kukhulu / kuncani	ilanga eli-1

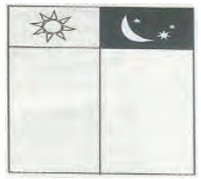
Iveke 5	Isikhathi Sokufundisa Esiphakanyisiweko: Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu** **(3-D)**	• **Madanisa bona ngiyiphi yezinto ezimbili onikelwe zona ezi:** - **Kulu nencani** - **Kudlwana nencazana** - **Kulu khulu nencani khulu** **Okuphathelene nokusikinyeka komzimba.** Utitjhere ugwala indulungu encani esandeni, ehlabathini / eflurini. - Abafundi bakhamba magega nendulungu encani. Utitjhere ugwala indulungu ekudlwana ngaphandle kwencani - Abafundi bakhamba magega nendulungu ekudlwana. - Utitjhere uyababuza athi: o Ngiyiphi indulungu encani khulu?” o “Ngiyiphi indulungu ekulu khulu? ” o “Khambani phezulu kwendulungu encani” o “Khambani phezulu kwendulungu ekulu”. Utitjhere ugwala indulungu ekulu khulu kunaleyo agcine ngayo ngaphandle kwaleya ekulu. - Abafundi bakhamba magega nendulungu ekulu khulu leyo godu. - Utitjhere ubuza imibuzo efana nokuthi: o “Ngiziphi iindulungu ezikulu khulu?” o “ngiziphi iindulungu ezincani khulu?”.	Iindulungu ezikulu nezincani ezigwalwe esandeni / efrlurini / ehlabathini 	ilanga eli-1

Iveke 5	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa eziphakanyisiweko.**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu** **(3-D)**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Abafundi bahlela ngemihlobo begodu bamadanise izinto ezihlukahlukeneko ukuya ngesayizi.(okukhudlwana , okuncazana) isib. - Iinkunupe ezikulu kwezincani - Iingobho ezikulu kwezincani - Amabhoksi amakhulu kwamancani Umsebenzana lo ungadluliselwa ekudlaleni ngaphandle (ukudlala ngesanda nokudlala ngamanzi) lapho abafundi banga madanisa izinto begodu bakhulume ngokuthi ngiyiphi encazana/kudlwana, kulu khulu nencani khulu. Lokhu kungahlanganisa nobukghwari bokubonwako – yenza isithombe ngokusebenzisa iincucwana nezinye iinthombe usebenzise okuthi into ekulu/encani. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi bona**:** - Badlale imidlalo yamakarada begodu bathole okuncanil/okukhulu/okukhulu khulu eenthombeni. - Buza imibuzo efana nokuthi: “ngiyiphi ifesi esekuthomeni nofana ngiyiphi ifesi esekugcineni?” “Ngiyiphi ifesi ephakathi?”  - Ragela phambili uye emaledereni ukwenzela bona abafundi balemuke bona iinthombe zijamele amagama. Akukafaneli bona abafundi bafunde amaledere. 	Amabhlogo wokwakha neembholo zamasayizi ahlukahlukeneko Iinkunupe, iingobho, amabhoksi wemithi, amabhoksi wamanyathelo, amakhathoni webisi anaganalitho, iimumathi zemithi ezinganalitho, njll. 	ilanga eli-1

IVEKE 6	Isikhathi Sokufundisa esitjhukunyisiweko Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	**Linganisa begodu ubale izinto zangamalanga ngokuthembeka.** **Ukubala kwangamalanga** - **Zehloko:**Ukubala okungakahleleki /ukubala kwegido kusuka ku- 1- 5 - Cula iingoma nemilolozelo yeenomboro	Iingoma nemilolozelo yeenomboro	Ngamalanga
2.1 **Amaphetheni weJiyomethri**	**Ukukopa begodu ungezelele amaphetheni** • **Kopa iphetheni** **Okuphatheleke nokusikinyeka komzimba:** - Utitjhere utjengisa igido ;lama[phetheni elenziwa ngamalungu wezitho zomzimba begodu abafundi bafanele bakope amaphetheni enziwa ngutitjhere isib. Wahla,wahla,gida;wahla,wahla,gida;…wahla,masinya,masinya,wahla njll..... **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Kopa amaphetheni anezinto isib..: - Sebenzisa imihlobohlobo yamakari - Sebenzisa ubujamo isib.iindulungu, indulungu, uncantathu,indulungu,..... - Sebenzisa izinto isib. Iphegi ebovu, iphegi ehlaza njengesibahakabhaka, iphege esarulana, iphege ebovu ,.....	Abafundi  Ubujamo obuyi Logi Amaphegi wephegi-bhodi	ilanga eli-1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Vumela abafundi ba: - Tlame amaphetheni okungewabo ngamakarida weenthombe isib. ithuthumbo,ikari,ikari,ithuthumbo,.... - Tlame amaphetheni okungewabo anemibala isib. Bovu,hlaza sasibhakabhaka, bovu, hlazsasibhakabhaka,bovu..... - Ngesikhathi sobukhwari bokutlama abafundi basebenzisa iiimpontji ezinobujamo obusikiwe ukugandangisa amaphetheni…..	Nikela abafundi amakarada weenthombe Amakarada wemibala UTitjhere angaqunta ubujamo eempontjini	

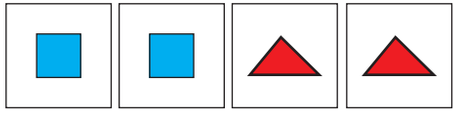
IVEKE 6	Isikhathi Sokufundisa esitjhukunyisiweko Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Khumbula, ubone begodu utjho isikwere ngegama** **Yethula isikwere** Lokha nawuthula isikwere kokuthoma izinto ozisebenzisako kufanele zifane poro ngayo yoke into(zilingane ngobukhulu,zifane ngombala,zifane nangendlela ubunjalo bento buzwakala ngayo esandleni nawuyithintako)Isikwere senziwa ngahlangothi amane alinganako.Lokhu kubizwa ngokuthi sikwere . **Okuphathelene nokusikinyeka komzimba** - Itlasi loke lenza isikwere. - Abafundi abakhambe phezu kwesikwere esenziwe ngerobho ekhaphetheni batjho ukuthi",Ngikhamba magega nesikwere-ihlangothi linye,amahlangothi ambili,amhlangothi amathathu,amahlangothi amane woke amahlangothi ayafana ?" - Abafundi benza iinkwere ezincani ngenqheema. **Sebenzisa izinto eziphathekako ezibusontathu 3-D** - Utitjhere utjengisa umahluko phakathi kwendulungu, begodu nesikwere ngokuphakamisela phezulu isivalo sekotikoti nethayeli esikwere. - Isivalo sizwakala siyindulungu begodu ithayeli inangemacadi namakhona / amahugu. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utjithere ugwala azungeleze isivalo begodu azungeleze ithayeli - Isivalo sijamela indulungu begodu ithayeli lijamela isikwere. - Abafundi abavunyelwe ukuthi bagadangise bazungeleze isivalo nethayeli ngamakhrayoni.	Abafundi Irobho Isivalo sekotikoti Ithayela lesikwere Imvalo ezihlukahlukeneko ezizindulungu nezinto ezizinkwere Iphepha eligadangisiweko lendaba Amakhrayoni	ilanga eli-1
	Hlela ngeengaba izinto ezibusontathu 3-D nalezo ezinobujamo obubusobabili 2-D nofana iinthombe Hluakanisa abafundi ngenqheema. Vumela abafundi uku: - Hlela izinto ezihlukahlukeneko ezibusontathu 3-D nezinto ezibusobubili 2-D ezinikelwe ngutitjhere ngokuya ngobukhulu nangombala. - Qinisekisa ubujamo ngokudlala imidlalo nemidlalo yamakarada ngesikhathi esitjhaphulukileko sokudlala ngetlasini.	Amakarada anobujamo Izinto ezibusontathu 3-D njengamabhlogo, ,amabhlogo wama lego Ubujamo obubusobubili 2-D njengemidlalo engagandelela ubujamo njenga"kunani ngesikwereni ?	

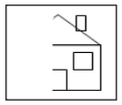
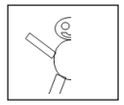
IVEKE 6	Isikhathi Sokufundisa esitjhukunyisiweko Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	**Khumbula,ubone begodu utjho namagama wezinto ezibosobathathu 3-D ezitjhelelako** • **Yethula izinto ezitjhelelako** Nikela abafundi izinto ezihlukahlukeneko ezibusontathu 3-D nezinobujamo obubusobubili 2-D njengama bhlogo, amabhoksi, iimbholo, njll. - Vumela abafundi bona bazifumanele ngokudlala ukuthi ngiziphi izinto ezingatjhelela begodu ngiziphi izinto ezingagedeka. - Abafundi bangasebenzisa ukutjhelela okukhona ebaleni lokudlala nofana utitjhere angasebenzisa itafula ukwenza umenyuko nofana umehlela ngokubeka amabhlogo amabili ngaphasana kwalo. - Ikhona enye yezinto engatjhelela iye phezulu? - Ngiziphi izinto ezitjhelela ziye phasi? - Khuyini okwenza ukuthi izinto lezi zitjhelele?	Amabhlogo Iimbholo Amabhoksi imitjhelelo / Itafula elinamabhlogo	ilanga eli-1
3.1 **Ubujamo, ukujayeza nokubukela**	**Hlathulula into eyodwa ebusobuthathu 3-D ngokuyihlobanisa enye kwenye** • **Thuthukisa umqondo we ngaphezu kwa / ngaphasi kwa, / ngaphezulu kwe** **Okuphathelene nokusikinyeka komzimba** - Umfundi ngamunye uhlala phezu kwesitulo sakhe. - Abafundi balalela iinlayelo zakatitjhere begodu balandele lokha benza imisikinyeko isib. hlala phezu kwesitulo sakho, lala ngaphasi kwesitulo sakho. - Jama phezu kwesitulo sakho. Hlala ngaphasi kwetafula. - Beka izandla zakho phezu kwehloko. - Beka izandla zakho ngaphasi kwemilenze yakho. - Beka umgodlana weembhontjisi ngaphasi kwamakhwapha wakho. - Hlala phezu komgodlana wamabhontjisi. - Bamba iwupsi ngaphasi kwamadolo. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Vumela abafundi ababili ukuthi babambe ingqathu/ igqupsi abafundi abanengi bakhokhoba ngaphasi kwengqathu / gqupsi . - Funa into ngaphasi kwekhaphethe/kwetafula/kwebhoksi njll.. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere unikela abafundi iinthombe ezihlukahlukeneko lokha umqondo wa phezu kwa, ngaphasi kwe, ngaphezulu zitjengiswa isib. umuntu ohlezi phezu kwepera,umtwan ulele ngaphasi kwengubo njll. Vumela abafundi: - Ukubona umqondo waphezu, ngaphasi, nangaphezulu kwe- eenthombeni.	 Isitulo somunye nomunye umfundi Ngaphezu kwetafula  Ngaphasi/ngaphasi kwe	

IVEKE 6	Isikhathi Sokufundisa esitjhukunyisiweko Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
4.1 **Isikhathi**	**Hlathulula isikhathi selanga ngokuya ngokuthi imini/nobusuku ukukhanya/ nobumnyama.** • **Yethula yomibili imiqondo ethi "imini /ubusuku" begodu "ukukhanya / ubumnyama"** Hlanganisa imiqondo le neLwazi lokuThoma leenhloko zamaKgono wePilo. **Okuphathelene nokunyakaziswa komzimba** - Balemuka ubumnyama ngokuhlala ngaphasi kwetafula nangaphasi kweentulo ezimbeswe ngengubo. - Yenza kubenzima ngetlasini ngukuvala amarharideyini nangokucima ikesi. - Abafundi bakhuluma ngelemuko labo lokha etlasini labo bekunzima nalokana bekukhanya. - Banikelwa itotjhi yokobana bakhanyise ngaphasi kwengubo. - Khuluma ngemisetjenzana eyenzeke ngesikhathi semini nangesikhathi sebusuku **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere ulungisa iphostara yelanga nenyezi begodu anikele abafundi iinthombe ezikhomba bonyana kwenzekani ngesikhathi semini nasebusuku. - Abafundi kufanele babeke iinthombe zabo ngaphasi kwelanga nofana ngaphasi kwenyezi.	Iintulo neengubo itotjhi  Iphostara yemini nobusuku Iinthombe zemisetjenzana yesikhathi semini nesikhathi sebusuku. 	ilanga eli-1

IVEKE 7	**Iskhathi Sokufundisa esitjhukunyisiweko** **Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yembalo ngeveke**		
Iinhloko	**Amanothi atladlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Khumbula, bona begodu utjho amagama wezinto ezibusontathu 3-D nezobujamo obubusobubili 2-D ngetlasini** • **Yethula amaphazeli begodu unikele izeluleko zokuthi bayowakha njani** - Kukhulunyiswana ngesithombe sephazeli kuqaliswe emininingwaneni efana nokuthi umbala, abantu/iinlwana, izinto, ubujamo babantu/beenlwana nezinto. - Ukubona, ukhumbule begodu umetjhise umehluko wenquntwana zamaphazeli isib. o Inquntwana zamakhona. o Inquntwana ezinehlangothi elilodwa elinqophileko o Iinquntwana ezinganawo amahlangothi anqophileko o Ukubala inquntwana zamaphazeli.  **Yakhiwa bunjani iphazeli:** o Paka zoke inquntwana zamaphazeli ziqale phezulu '. o Ukubona iinquntwana zamakhona begodu uzimetjhise nemibala, izinto njll..phezu kwazo madanisa amakhona wamaphazeli. o Tlama amakhona amane usebenzise zoke inquntwana nales esinehlangothi elinqophileko. o Nangabe abafundi bathola ubudisi, bangatlma amaphazili phezu kwenthombe abanikelwe zona. o Woke amaphazili kufanele aqedwe phambi kokuthi abekwe.	**Amaphazili ahlukahlukeneko-okungasenani aneenquntu ezisi- 6**	ilanga eli-1

IVEKE 7	Iskhathi Sokufundisa esitjhukunyisiweko Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yembalo ngeveke		
Iinhloko	**Amanothi atladlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	**Hlathulula into eyodwa ebusobuthathu 3-D ngokuyihlobanisa nomfundi** • **Indawo/ ubjamo bezinto ezimbili nofana ngaphezulu nawuzihlobanisa nomfundi** - **Ngaphakathi / ngaphandle** **Okuphathelene nokusikinyeka komzimba** - Utitjhere usebenzisa itheyiphu enamathelako nofana igqupsi ukwenza imida emibili eflurwini . - Boke abafundi bajama ehlangothini linye,utitjhere uyabiza, “ngemlanjeni (Boke abafundi bafanele beqele hlangana nemida emibili, bese uyarhuwelela ‘ngaphandle komlambo’.Boke abafundi bafanele beqele ngaphandle ngale kwemida emibili. - Abafundi abangalandeli kuhle iinlayelo ngendlela efaneleko bayaphuma emdlalweni bangabe basadlala.	Umdlalo: ngemlanjeni (hlangana nemida emibili), ngaphandle komlambo (ngaphandle kwemida emibili) 2 iinrobho ze gqups	ilanga eli-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi: - Bajame amagadango ambalwa / kudanyana namathunga - Abaphosele imigodlana yembhontjisi ngaphakathi kwethunga **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Abafundi bagwala iinthombe ezitjengisa umqondo waka-ngaphakathi nofana ngaphandle.	Ithunga nofana amathunga Iphepha namakhrayoni	

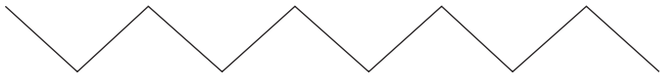
IVEKE 7	**Iskhathi Sokufundisa esitjhukunyisiweko** **Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yembalo ngeveke**		
Iinhloko	**Amanothi atladlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	• **Hlathulula into eyodwa ebusobuthathu 3-D ngokuyihlobanisa nomfundi: Phezulu/ phasi kwa/ngaphasi kwe** **Indawo/ ubjamo bezinto ezimbili nofana ngaphezulu nawuzihlobanisa nomfundi** **Phezulu/phasi- kwa/ngaphasi- kwe** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi bona balandele iinlayelo ezinjengalezi: - Beka ibhlogo elibovu phezu kwehloko yomngani wakho. - Beka ibhlogo elisarulana ngaphasi –kwa/ngaphasi-kwe/ tafula yakho - Beka ibhlogo phezu kwehloko yakho begodu ukhwelele phezu kwetafula yakho - Khasa ngaphasi kwetafula uvale amehlo wakho. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi: - Bapake aboncantathu enye phezu kwenye. - Bapake iinkwere ezihlaza sasibhakabhaka esinye phezu kwesinye. - Babeke iindungulu ezibovu ngaphasi kweenkwere ezisarulana. - Beke iindulungu ezisarulana begodu naboncantathu ababovu phasi/ nangaphasi kwenkwere ezihlaza sasibhakabhaka. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere ulungisa amakarada aneenthombe phezu kwawo begodu namakarada anobujamo obuthize phezu kwawo. - Abafundi bafanele babeke ubujamo bezinto phezu-kwe/phasi-kwe/ngaphasi-kwesithombe njengokubawa kwakatitjhere. - Isib.beka isikwere esihlaza sasibhakabhaka ngaphezu komantji weenthelo.	Amabhlogo wokwakha /Amabhlogo we-yunifiksi Ubujamo beLogi Iinthombe ezihlukahlukeneko  Amakarada wobujamo 	Ilanga li-1

IVEKE 7	Iskhathi Sokufundisa esitjhukunyisiweko Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yembalo ngeveke		
Iinhloko	**Amanothi atladlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.4 **Isimethri**	• **Qinisekisa ilemuko lomuda wesimethri wokubanda phakathi kuwe (emzimbeni wakho)** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi: - Batjho izitho zomzimba wabo - Vuma nofana ngiyiphi ingoma yomsikinyeko ephathelene nomzimba. Utitjhere utjengisa abafundi umqondo wesimethri ngokuhaga irobho phambi komfundi. - Abafundi bafanele bacabange ukuthi imizimba yabo ihlukaniswe kabili.  Utitjhere uhlathululela abafundi bona umzimba uhlukaniswe bunjani amhlangothi amabili abizwa ngokuthi mumuda wangaphakathi komuntu. - Zoke izinto ezingazimbili emzimbeni womuntu zitholakala emahlangothini womabili womzimba womuntu isib.amehlo,iindlebe,imikhono,imilenze njll. - Yoke into umuntu anayo ngayinye ibekeke emudeni ophakathi wangaphakathi isib. Ipumulo, umlomo,ikaba. Ukwenzela ilawulo lomuda ophakathi wangaphakathi, ufanele uvumele abafundi uku: - Matjha, baphakamise amadolo phezulu. - Matjha “njengamasotja anghanghabeleko wamabhlegana”. - Vundlisa imikhono,vundlisa imilenze lokha nabamatjhako. Hlanganisa imisikinyeko le nobuKghwari boKwenza emaKgonweni wePilo. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Gwala iinthombe ezingakapheleli ephetjhaneni begodu ubawe abafundi bonyana baqedelele iinthombe.	Ingoma: “Ihloko nama hlombe, amadolo nama zwani ” Irobho yinye yokutjengisa Imizimba yabafundi Iinthombe ezingakapheleli  	Ilanga li-1

IVEKE 7	**Iskhathi Sokufundisa esitjhukunyisiweko** **Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yembalo ngeveke**		
Iinhloko	**Amanothi atladlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	• **Indawo/ ubjamo bezinto ezimbili nofana ngaphezulu nawuzihlobanisa nomfundi** - **Phezulu naphasi** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi: - Batjengise “phezulu” na “phasi” ngoku sikinya imizimba yabo iye phezulu naphasi ngokulayelwa ngutitjhere. - Khwela iintebhe uye phezulu amgadango amabili lokha ubala iinomboro zeentebhisi. - Yehla iintebhisi uye phasi lokha ubalako. - Khwelela uye”phezulu” “ naphasi” eentweni ezingaphandle. - Khwelela uye” phasi” “ naphezulu” erobheni yelere nangabe isikolo sinayo. - Qala phezulu naphasi. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere unikela abafundi iinthombe ezihlukahlukeneko lapho umqondo waphezulu naphasi utjengiswa khona. - Isib. Umuntu ukhwelela intaba ,ibhaloni yomoya iya phezulu emoyeni ibuye godu ize phasi, omunye owehla eentebhisini aye phasi njll. Vumela abafundi**:** - Ukubona imiqondo ya”phezulu” na”phasi” eenthombeni.	Vuma ingoma , ”Iqhegu le” Sebenzisa iintepisi zasesikolweni wenze ijangel jimu (izinto zokukhwelela) Irobho, ukukhwelela ilere Iinthombe ezitjengisa phezulu naphasi isib. iintepisi 	Ilanga li-1

Iveke 8	Isikhathi Sokufundisa esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.4 **Isimethri**	• **Ukuvundla umuda ophakathi wangaphakathi okufaka hlangana ukubala** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi: - Basonge umzimba begodu beqe ngegido lokha nababalako. - Bajame bacalane, begodu bawahle ngokuphambanisa izandla (isandla sakho sesincele sibethe isandla somngani wakho sesincele, nesandla somngani wakho sokudla sibetha sakho sokudla) lokha nivuma ingoma/ umlolozelo weenomboro enegido. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi ba: - Phosele umngani wakhe ibholo lokha nababalako. - Khambe phezu kwerobho egobeneko lokha bavuma ingoma isib. “indlovu eyodwa encani iyadzimelela” - Rarhelane ibholo omunye komunye. Umsetjenzana ongaphezulu ungahlanganiswa namaKgono wePilo.	Abafundi Iingoma zeenomboro nemidunduzelo  Ibholo,irobho	Ilanga li-1
2.1 **Amaphetheni weJiyomethri**	• **UkuTlama amaphetheni wakho** **Okuphathelene nokusikinyeka komzimba** Vumel a abafundi batlame iphetheni basebenzise: - Imizimba yabo isib.umtazana munye powembethe irogo, abasana ababili abambethe amabhrugu. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Sebenzisa izinto ezinobujamo obuhlukeneko ezibovu nezihlaza sasibhakabhaka isib. Iinkwere ezimbili ezihlaza sasibhakabhaka, aboncantathu ababili ababovu, iinkwere ezimbili ezihlaza sasibhakabhaka. …….. - Sebenzisa iphetheni ngesikhathi somsetjenzana wobuKghwari ngoku sebenzisa ipende ebovu nehlaza sasibhakabhaka ngemvadlwana zamabhodlelo.	Amajamo abovu nahlaza sasibhakabhaka weplastiki  UkuSebenzisa iimvalo zamabhodlelo neepende ehlaza sasibhakabhaka nebomvu  bovu hlaza bovu hlaza bovu hlaza	Ilanga li-1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) **usebenzise imibala yesibili** Vumela abafundi - Ukusebenzisa abothubhakguru babo ukugadangisa magega nemida yangemacadi ngeempende:isib. ipende ehlaza satjani, ipende esalamune, ipende ehlaza satjani ….. magega nengaphezulu lamaphepha wabo (**umsebenzi ungenziwa ngesikhathi sobuKghwari bokuBonakalako)**	Iphepha le A4 Ipende ehlaza satjani begodu nesalamune nofana omunye nomunye umbala onawo.	

Iveke 8	Isikhathi Sokufundisa esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana		
linhloko	**Amanothi atlhadlhulako**	**linsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	**Ukukhumbula,ukubona nokutjho amagama wezinto zobujamo bukaSobathathu 3-D** • **Qinisekisa izinto ezigedekako** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi: - Ukudlala ngamabhodlelo wamaplastiki, amakotikoti, iimbholo, ilamune njll. begodu bahlole nekghonakalo yokuthi zingagedeka. Utitjhere ubuza imibuzo: - Ngimaphi amabhlogo ewugwaneni yamabhlogo akghona ukugedeka? - Amabhlogo angakwazi ukugedeka ngombana anamahlangothi anqophileko kuphela . - Geda izinto ezihlukeneko begodu uqale bona ngiyiphi egedekako begodu ngiyiphi engakghoni ukgedeka.' - Abafundi kufanele babone bonyana izinto ezirondo ziyagedeka.	Amabhodlelo wamaplastiki Amabhlogo, amabhlogo we Lego Amakotikoti, amakomitji wamaplastiki,amarolo wamaphephawa ngendlwaneni,iinkeresi,ilamune,iimbholo njll.	ilanga li-1
3.1 **Ubujamo, ukujayeza nokubukela**	• **Thuthukisa umqondo wekomba tjhuba ngokuthula imiqondo elandelako "ngaphambili,/gemuvabegodu phambili/emuva "** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi: Ukulandela iinlayelo zikatitjhere (umfundi ubayedwana nofana njengelunga lesiqhema) begodu bakhambe nofana bazibeke endaweni ethize ngetlasini isib. - Jama" ngaphambi" kwetlasi. (thatha ilingaphambili letlasi bonyana kulapho umnyango ungakhona) - Jama " ngemuva" etlasini . - Khamba uye phambili nasemuva. - Khasa uye phambili nasemuva. - Yeqa uye phambili nasemuva.	Abafundi	Ilanga li-1

Iveke 8	**Isikhathi Sokufundisa esitjhukunyisiweko:** **Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana**		
linhloko	**Amanothi atlhadlhulako**	**linsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	Utitjhere ugwala iphetheni eflurwini ngetjhogo nofana ehlabathini isib.  nofana  Vumela abafundi uku: - Khamba begodu/ nofana ukukhasa emideni yamaphetheni. - Beka isiquntu sephepha elibovu emawugwaneni ukujamiselela amarobodo. Lokha abafundi nebafika emawugwini kufanele bajike ngemizimba yabo yoke ukuze bathole imiqondo yekhombatjhuba.	Ugwala ehlabathini Iphepha elibovu	Ilanga li-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi: - Ukwenza indlela ngamabhlogo wokwakha. - Ukusunduza imoderana yokudlala iye phambili nasemuva ‘endleleni” yamabhlogo wokwakha. - Ukusunduza imoderana yokudlala ngokujikela ehlangothini linye nangokujikela kwelinye ihlangothi ” endleleni” yamabhlogo.	Amabhlogo wokwakha	

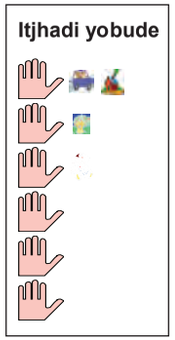
Iveke 8	**Isikhathi Sokufundisa esitjhukunyisiweko:** **Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana**		
linhloko	**Amanothi atlhadlhulako**	**linsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
5.1 **Ukubuthelela nokuhlela izinto ngemihlobo**	• **Yethula umqondo wokuphathwa kwe Datha ngoku (sebenzisa imizimba yabo) ukubuthelela izinto ngetlasini nofana ngebhodolukweni ngokuya ngobujamo/ ngamatshwayo abekiweko isibonelo:** **Okuphathelene nokusikinyeka komzimba:** Hlukanisa abafundi ngeenqhema - Esiqhemeni ngasinye, abesana abajame ngereyi nabantazana bajame ngereyi eqadi kwereyi labesana - Vumela abafundi bonyana babale inani labesana nenani labantazana ukuthi bangaki esiqhqmeni ngasinye - Ngalokhu ungazalisa " igrafu yemizimba" yabesana begodu neyabantazana esiqhemeni ngasinye.	Abafundi bajama ngamareyi ambili Girls Boys □ □ □ □ □ □ 2 3	Ilangali-1
5.2 **Ukujamiselela ibuthelelo lezinto elihlelekileko**	**Gwala igrafu ukutjengisa idatha** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Abafundi bangasebenzisa ilwazi elingehla ukuthuthukisa umqondo wegrafu yezinto ezibusontathu **3-D** ngokusebenzisa amabhlogo/ ubujamo njll ukujamela umfundi ngamunye.		
5.3 **Coca bewubike ngokuhlelwa kwezinto ezibuthelelweko**	**Ukufunda begodu nokujamisela igrafu** **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Abafundi benza igrafu ngokusebenzisa ihlama yokudlala ukwenza iimbhodlwana ezincani ukujamisela ihlathululo yabo ngomsetjenzana abawenzileko. - Nikela abafundi amaphepha anesithombe somntazana nesomsana zibekwa phezu kwephepha lomunye nomunye umfundi. - Vumela abafundi ukugeda iimbholo ukujamiselela inani/ inomboro yabentazana nabesana enqheemeni zabo. - Abafundi babeka inomboro ethize yeembholo ngaphasi kwesithombe ezifaneleko.	Ihlama Iphepha A4	

Week 9	Isikhathi Sokufundisa esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana		
linhloko	**Amanothi atlhadlhulako**	**linsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	• **Ukuhlola izinto ezitjhelelako nezigedekako** Utitjhere ubamba ibholo ayibhampise eflurini. Uligeda eflurini. Utitjhere godu uthatha ibhoksi enze njengombana bekasenza lokha enza ngebholo. Utitjhere ubuza abafundi: - Ngiziphi izinto ezigedekako? - Kubayini ibhoksi lingagedeki? - Ngiziphi izinto ezitjhelelako? Utitjhere utjengisa abafundi ukuthi ibhoksi linamahlangothi amane(amawugu) ngalokho-ke alikwazi ukugedeka begodu ibholo alinawo amawugu begodu liyakwazi ukugedeka. - Khuthaza abafundi bona bathole izinto ngetlasini ezikwaziko ukugedeka begodu ezitjhelelako. - Buza abafundi bona bangathola i(zi)nto ezingagedeka begodu zitjhelele.	 **Ibholo**  **Ibhoksi**	ilanga li-1

Week 9	Isikhathi Sokufundisa esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana		
linhloko	**Amanothi atlhadlhulako**	**linsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula ,ukubona nokutjho amagama wezinto neenthombe ezinobujamo obubusobubili 2-D ngetlasini** - **lindulungu** • **Qinisa indulungu** **Okuphathelene nokunyakazisa umzimba** Vumela abafundi: - Ukuthi basebenzise iminwana yabo ukwenza iindulungu - Ukuthi basebenzise izandla zombili ukwenza iindulungu - Ukuhlala phezu kwemada , benze indulungu lokha babambene ngezandla. - Bakhamba phezu kwendulungu ekulu,eyenziwe ngentambo, phezu komada. - Badlala umdlalo lokha abafundi bahlezi benza indulungu begodu bavume nengoma. o Munye wabafundi ujama ngaphandle kwendulungu, agijime begodu ayizungeleze lokha abambe ibholo esandleni sakhe. o Umfundi uyazikhethela ukubeka ibholo ngemuva komunye umfundi kilaba abahlezi benza indulungu o Umfundi okhethiweko kufanele adobhe ibholo engemuva kwakhe azame ukuphosa umfundi loya ngebholo, lokha nakagijima azombeleza indulungu yabafundi agijimela ukuyokuhlala endaweni enganamuntu. o Nangabe ibholo ithinta umfundi obalekako, umfundi loyo kufanele ahlale ngaphakathi kwendulungu, umdlalo wona uragela phambili. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi uku: - Thola izinto ezirondo nofana ezizindulungu ngetlasini - Thola amajamo ajamele indulungu. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere utjho amagama wezinto lokha abafundi batjho/bakhomba bona ngiziphi izinto ezirondo/ndulunga isib.ilamune, ihabhula, itafula, ibholo, imabula, incwadi, ibhoksi njll.	Abafundi Intambo Ibholo leenyawo, ibholo yetenese, ibholo yegolfu, Amahabhula, ilamune, amawupsi, njll. ilamune,ihabhula, itafula, ibholo, umabula, incwadi, ibhoksi,	Ilanga li-1

Week 9	Isikhathi Sokufundisa esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana		
linhloko	**Amanothi atlhadlhulako**	**linsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	**Ubujamo bento yinye nofana zimbili lokha uzihlobanisa enye kwenye** • **Imiqondo ethi eduze/hlangana okufaka hlangana nombala** **Okuphathelene nokusikinyeka komzimba** Utitjhere ubiza abafundi abathathu Ukhombisa/ utjengisa imiqondo yeduze- kwe, begodu no hlangana –ne ngokuhlela abafundi ngezindlela ezihlukahlukeneko lokha kuthiwa: - UKholiwei ujame eduze kuka Stefani - UMmeli ujame hlangana noKholiwe noStefani Umsetjenzana lo ungabuyelelwa nabanye abafundi. Utitjhere unikela abafundi amabhlogo wokwakha wemibalabala ehlukahlukeneko begodu abanikele iinlayelo ezifana nalezi: - Beka ibhlogo elibovu eduze nebhlogo elisarulana - Beka ibhlogo ehlaza sasibhakabhaka hlangana nebhlogo elibovu nelisarulana. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Ngokusebenzisa imigodlana yembhontjisi enemibala ehlukahlukeneko (bovu, hlaza sasibhakabhaka, sarulana,hlaza satjani) nikela abafundi iinlayelo bona: - Beka umigodlana weemhontjisi ohlaza sasibhakabhaka eduze nomgodlana weembhontjisi osarulana. - Beka umgodlana weembhontjisi obovu hlangana nomgodlana weembhontjisi ohlaza sasibhakabhaka nosarulani. Umsetjenzana lo, ungafakwa hlangana kwezamaKghono wePilo.	Amabhlogo wemibalabala Imigodlana yeembhontjisi enemibalabala	Ilanga li-1

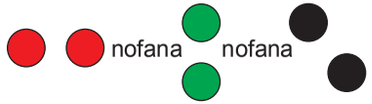
Week 9	Isikhathi Sokufundisa esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana		
linhloko	**Amanothi atlhadlhulako**	**linsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	• **Hlela amabuthelelo adlulako kwamabili wezinto onikelwe zona kusuka kwencani khulu ukuya kwekulu khulu** **Okuphathelene nokunyakazisa komzimba:** Nikela abafundi ihlama yokudlala begodu ubavumele benze iimbholo ngehlama. - Eenqhemeni zabo, abafundi bahlela iimbholo ezenziwe ngehlama kusuka kwencani khulu ukuya kwekulu khulu begodu kusuka kwekulu khulu uye kwencani khulu. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Elinye nelinye ilungu lesiqhema kufanele lithole into ngetlasini. - Vumela abafundi bahlele izinto abazitholileko kusuka kwencani khulu ukuya kwekulu khulu eenqhemeni zabo. UTitjhere unikela esinye nesinye isiqhema incwadi yakade yenomboro zemitato. Vumela abafundi: - Ukudabula amaphepha encwadini yeenomboro zemitato,bazitjhwabanise benze iimbhodlwana eenqhemeni zabo. - Abafundi kufanele bamadanise ukuthi ngiyiphi ibholo ekulu khulu begodu ngiyiphi encani. Khulu. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Nikela abafundi iphepha elinenthombe ezinezinto ezikulu nezincani - Abafundi bangakhrayona izinto ezikulu begodu bazungelezele izinto ezincani	Ihlama yokudlala Nofana ngiziphi yezinto ngetlasini Iincwadi zakade zeenkomba zemitato A4 yephepha elineenthombe	ilanga1

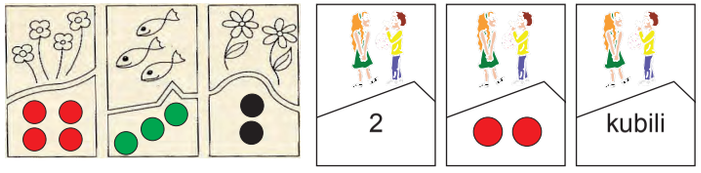
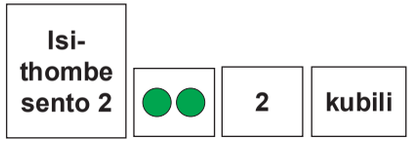
Week 9	Isikhathi Sokufundisa esitjhukunyisiweko: Umsebenzi wetlasi owodwa ohleliweyo okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana		
linhloko	**Amanothi atlhadlhulako**	**linsetjenziswa eziphakanyisiweyo**	**Ukulinganisa ubude besikhathi**
4.2 **Ubude**	**Madanisa begodu uhlele ngokuphathekako izinto ngokusebenzisa ilwazi magama elifaneleko ukuhlathulula "ukuphakama"** • **Ukwethula umqondo "wokuphakama"** - **Ubude khulu / fitjhani khulu,** - **yide-khulu / fitjhani khulu)** **Okuphathelene nokusikinyeka komzimba** - Utitjhere ubiza abafundi aba- 4 begodu abawe isizo labafundi ukuthi bamrhelebhe ukuhlela abafundi kusuka komude ukuya ngobkomfitjhani. - Vumela abafundi bazihlele ngokwabo eenqhemeni zabo ukusuka **komude** ukuya **komfitjhani**. - Umfundi munye ujama asame ngeboda lokha omunye welunga labo amumeda ubude bakhe ngezandla		llanga li-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Utitjhere ubeka izinto ezihlukahlukeneko etafuleni yesinye nesinye isiqhema okufana neenrula, amapensela, amakhrrayoni, amaraba njll. - **Hlela** zoke izinto **ezide** nezinto ezifitjhani ndawonye. - Abafundi kufanele bahlele izinto kusukela kwezide khulu ukuya kwezifitjhani khulu. **Itjhadi lobude** - Utitjhere unetjhadi lobude ebodeni elilungiselelwe ukumeda ubude baloyo naloyo mfundi. - Sebenzisa amakarada wamatshwayo wabafundi ukubonisa ubude baloyo naloyo mfundi etjhadini lobude. - Utitjhere nabafundi bazothatha isiqunto sokobana uSipho mude ngamagadango wezandla ezi-6 lokha u-Abi anamagadango wezandla ama-5 ngombana yena u-Abi amfitjhana	**linrula, amakhrayoni, amapensela,amaraba njll.** **Ubude bukaSipho zizandla ezisi-6** **Ubude buka Abi zizandla ezi-5** 	

IVEKE YE-10	Sebenzisa iveke ye-10 ukutjheja nokuqinisa imiqondo begodu /nofana iinqabo zokufunda ezitholakeleko	
OKUMUMETHWEKO	**Iinhloko**	**Indlela yokuhlola**
Iinomboro, ama-opharetjhini noBudlelwano	**1.1 Ukubala**	Ukulinganisa begodu nokubala okungakahleleki ukufika ku-5 (iingoma zeenomboro nemidunduzelo ifaka hlangana ukuthuthukisa umqondo wenomboro)
		Ukubona iinomboro emajamweni ajayelekileko-isib umnyaka, irejista
		Ukuzwisisa iinomboro sikhundla (isib. Ngesikhathi somsebenzi wangamalanga wangendlwaneni yokuphumela)
		Ukuzwisisa khunye nakhunye okukhambisanako (Itjhadi lomsizi ngesikhathi seenqabuli)
		Ukubona iinthombe zeenomboro begodu namakarada wamacatjhazi abandakanya inomboro kunye
		Ukwazi itshwayo lenomboro 1
		Ukukhumbula igama lenomboro kunye
	1.6 Ukurarulula imiraro	Ukusebenzisa iinsetjenziswa eziphathekako Ukuhlathulula ukucabanga kwakhe ngamagama nofana ngokugwala nofana izinto eziphathekako
Amaphetheni namaFanktjhini	**2.1 amaphetheni weJiyomethri**	Ukubona amaphetheni ebhodulukweni
		Kopa, ungezelele begodu utlame amaphetheni wakho
Isikhala nobuJamo (iJiyomethri)	**3.1 Ubujamo, ukuzijayeza nokubukela**	Ukwazi ngaphambi kwe, ngemuva kwe
		Ukwazi ngaphezulu, phezu kwe, ngaphasi kwe, ngenzasi
		Ukwazi ukuthi ngaphakathi, ngaphandle
		Ukwazi phasi, phezulu
		Ukuzwisisa imiqondo:ukuya phambili, ukuya emuva, phambili nemuva
	3.2 Izinto ezibusobuntathu (3-D) begodu **3.3 amajamo abusobubili (2-D)**	Ukukhumbula, ukubona nokutjho amagama weembholo
		Ukukhumbula, ukubona nokutjho amagama wamabhoksi
		Ukukhumbula, ukubona nokutjho itshwayo lakhe, itshwayo lomngani wakhebegodu negama letlasi
		Ukwakha okungasenani iphazeli yeentokana ezisi -6
		Ukutjengisa ikghono lokuhlukanisa hlangana nezinto “ezinqotjhiweko begodu nezinto ezingakanqotjhwa.”
		Ukubona nokukhumbula indulungu.
		Ukubona nokukhumbula uncantathu
		Ukubona nokukhumbula isikwere
		Ukumadanisa bonyana ngiliphi lamabuthelelo amabili wezinto aniklelweko elikhudlwana, ncazana, khulu khulu, ncani khulu
		Ukuhlela izinto ngama: sayizi/ ubukhulu – ezikulu nezincani
		Umbala – Imibala esisekelo (obomvu, osarulani, ohlaza sasibhakabhaka
		Ubujamo – indulungu, uncantathu, nesikwere
		Izinto ezigedekako
		Izinto ezitjhelelako

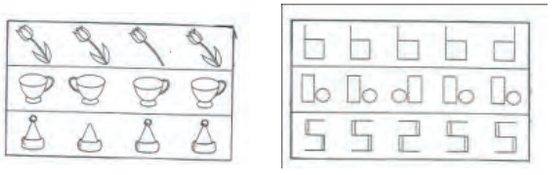
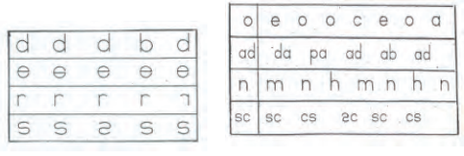
IVEKE YE-10	Sebenzisa iveke ye-10 ukutjheja nokuqinisa imiqondo begodu /nofana iinqabo zokufunda ezitholakeleko	
OKUMUMETHWEKO	**Iinhloko**	**Indlela yokuhlola**
Isikhala nobuJamo (iJiyomethri)	**3.4 Isimethri**	Ukubona umuda wesimethri Kuye
Ukumeda	**4.1 Isikhathi**	Ukusebenzisa amagama afana nokuthi imini, ubusuku, khanya begodu nzima, ekuseni, emini , ntambama, ukuhlathulula isikhathi selanga
		Hlela izehlakalo ezizibuyelelako zepilo yakhe yangamalanga (iHlelo Langamalanga)
		Ukutjengisa ilemuko lamalanga weveke, isikhathi sonyaka begodu nobujamo bezulu
		Ukwazi ilanga lakhe lamabeletho
	4.2 Ubude	Hlukanisa hlangana kobude, ubudanyana, ubude khulu, fitjhani, fitjhazana, fitjhani khulu(itjhadi lobude)
Ukuphatha idatha	**5.1 Ukubuthelela nokuhlela izinto**	Ukwazi ukubuthelela, ukuhlela, ukugwala, ukufunda begodu nokujamiselela (tsenga) izinto ngokuya ngetshwayo elilodwa.
	5.2 Ukujamisela ibuthelelo lezinto ezihleliweko	
	5.3 Ukucocisana nokuletha umbiko ngezinto ezisebuthelelweni elihleliweko.	

ITHEMU YESI -2 IIMBALO IGREYIDI R			
Iveke ye-11	**Ubude besikhathi esiphakanyisweko :** **Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa Ubude besikhathi**
1.1 **Ukubala izinto**	• **Ukwethula ihlathululo yenomboro uku-2** **Zomlomo:** Bala izinto zangamalanga ukufika ku-2 Ukubala uye phambili begodu uye emuva ukufika ku-2. Ukubala okungakahleleki 1-7 **Ukuqinisa imiqondo yo: kunengi" begodu "mbadlwana"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-2.	Iinthombe ezimbili zeenyoni zokubala ingoma - "Iinyoni ezimbili ezincani zikaDickey"	ilanga li-1
	Okuphathelene kokusikinyeka komzimba Vumela abafundi ba: - Bize abafundi aba-2 ngaphambili. Ba bale - Bale iintulo , iintafula ezi-2,njll - Bona izinto ezikhamba ngaziimbili emzimbeni njengamehlo, iindlebe, izandla, imilenze,iinyawo, amadolo, amahlombe, njll. - Benze igido elenziwa ngezitho zomzimba, wahla izandla kabili, vuma ngehloko kabili,ukubetha ngenyawo kabili,nofana ukweqa kabili - Phakamise imino emi-2, izandla ezi-2, iinyawo ezimbili	Imizimba yabafundi	

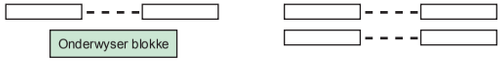
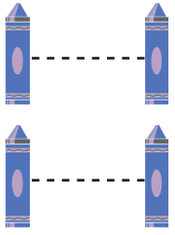
Iveke ye-11	**Ubude besikhathi esiphakanyisweko :** **Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa Ubude besikhathi**
1.1 **Ukubala izinto**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi: - Babone izinto ezimbili ezifanako ezingekumbeni yokufundela, isib. Amanyathelo amabili, amakhrayoni amabili, njll - Bathuthukise ilemuko lokuthi inomboro ihlala injalo noma ungayijamiselela ngani ngokuvumela abafundi babeke izinto zokubala ezimbili nofana ezinye izinto ngeendlela ezihlukahlukeneko, isib.  Lokha nawubalako, inomboro yezinto ayithikanyezwa bukhulu nofana ubujamo, nofana indawo, nanyana zingezemihlobo efanako, isibonelo: - Hlela iinkunibhe ezi-2, amapensela ama-2, amawupsi ama-2, abafundi aba-2,njll - Zibale ngendlela ehlukahlukileko, isib. Zibale zirhatjhekile, zihlalelene, zisemudeni nofana zipakelene.	izinto zokubala ezi-2 nofana izinto ezi-2 zomfundi ngamunye	ilanga li-1

Iveke ye-11	**Ubude besikhathi esiphakanyisweko :** **Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa Ubude besikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukwazi itshwayo lenomboro begodu nokukhumbula igama lenomboro elifaka hlangana inomboro u -2** **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi: - Metjhisa amakarada weenthombe aneenthombe ezi-2 kiwo namakarada amabili anamachatjhaza amabili kiwo - Tjengisa amafletjhikarada anesithombe senomboro zezinto ezikhethiweko kilo, isib. ipara yamanyathelo, amakhrayoni amabili, njll - Vumela abafundi bafune izinto zenomboro ezifanako ngekumbeni yokufundela. - Ukubona amafletjhikarada aneenomboro zeenthombe ezihlukeneko - Ukubona amafletjhikarada anatshwayo lenomboro u-2 - Ukukhumbula amafletjhikarada ngegama lenomboro - Hlobanisa itshwayo lenomboro u-2 nenani lezinto begodu nenani lamaqatjhazi - Hlobanisa igama lenomboro nekarada letshwayo lenomboro , inani leenthombe begodunenani lamakarada wamaqatjhazi. - Hlanganisa amafletjhikarada wenomboro uku-1 begodu uvumele abafundi bona babone inomboro 1 begodu no 2 - Kwenza amaphazeli weenomboro begodu vumela abafundi bawamethjise, isib.  	Amafletjhikarada weenomboro anezinto ezimbili. Izinto ezingkumbeni yokufundela begodu nebhodulukweni.  Ifletjhikarada elineenthombe ezimbili, amaqatjhazi, itshwayo lenomboro,begodu negama lenomboro  	ilanga li-1

Iveke ye-11	Ubude besikhathi esiphakanyisweko : Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa Ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	• **Ukuhlathulula, ukuhlela begodu nokumadanisa izinto ezibusontathu (3-D) begodu namajamo abusobubili (2-D) ngokuya;** - **Ngokufanako begodu nokuhlukileko** **Okuphathelene nokusikinyeka komzimba** - Khetha abantazana ababili ngokusebenzisa umdunduzelo wokubala - Abanye abafundi babona bonyana abantazana ababili bafana ngani? - Khetha umsana begodu nomntazana ngokusebenzisa umdunduzelo wokubala - Abanye abafundi babona bonyana umsana nomntazana bahluke ngani - Ngababili umfundi oyedwa" ujama" ngendlela ethize begodu omunye umfundi ufanele akope ukujama komunye ngokunembako - Umfundi munye ujama izandla zakhe azibeke ehloko begodu nangenyawo linye. Omunye lo ukopa "ubujamo" lobo. - Hlela abafundi ngokuya ngobulili, labo abambethe amanyathelo, nalabo abambethe amapatlagwana, begodu nalabo abangakambathi amanyathelo. - Bizela abafundi laba ngaphambili. o Abentazana nabesana abambethe amabhrugu, nomtazana ombethe irogo o Boke abantwana abembethe amanyathelo, namunye ongakambathi amanyathelo - Buza imibuzo efana nokuthi: " Ngimuphi umfundi ongakhambeleni nabanye? Ngimuphi umfundi ohlukileko?"		ilanga li-1

Iveke ye-11	**Ubude besikhathi esiphakanyisweko :** **Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa Ubude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Abafundi ababili babhampisa amabholo: ibholo ekulu nebholo encani - Abanye abafundi babona bonyana kungayiphi indlela lapho iimbholo zifana khona begodu ngikuphi ezihluka ngakho. - Umfundi munye ugeda ilamuna, omunye ugeda ibholo. - Abanye abafundi babona bonyana kungayiphi indlela lapho ibholo nelamune zifana khona begodu ngikuphi ezihluka ngakho. - Abafundi batjheja amanyathela wabesana begodu namapatlagwana wabentazana - Abanye abafundi babona bonyana kungaziphi iindlela lapho amanyathelo afana begodu ahluke ngakho. - Abafundi bafunyana izinto ezifanako ezingekumbeni yokufundela.	Zenzele amakarada wakho wemidlalo amadanako njengesibonelweni esingenzasi 	ilanga li-1
3.3 **Ubujamo obubusobubili (2-D)**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Nikela amakarada womdlalo ametjhako ukuthuthukisa okufanako begodu nokuhlukileko, isib.  - Ragela phambili emakaradeni abudisana **ngokukhamba komnyaka**. Abafundi abakafaneli bonyana bafunde amaledere, isib. 	amakarada akhambelenako wemidlalo	

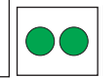
Iveke ye-11	Ubude besikhathi esiphakanyisweko : Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa Ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Hlela begodu madanisa ibuthelelo lezinto ngokusebenzisa"kulingana na" nofana "kufana na"** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi bonyana ba**:** - Thuthukise imiqondo wokufanako begodu nomqondo wokuhlukileko. - Madanisa imino yabo neenzwani zabo. Nanyana **zifana** ngenani ziqaleka zihlukile. - Madanisa imino, izinzwani namehlo. Ziqaleka zingafani. Sinenani elilinganako lemino neenzwani zili-10 kodwana sinamehlo amabili kwaphela.. - Madanisa iindlebe, imikhono, imilenze begodu neenyawo. Ziqaleka zihlukile kodwana ziyafana /lingana ngenani, zimbili ngayinye. - Uthitjhera ugwala iindulungu ezimbili phasi nofana wenza iindulungu ezimbili ngentambo phasi. Layela abafundi bonyana bazihlukanise kabili ukuze kubenenani labafundi elilinganako endulungini ngayinye. Bala inani labafundi. Khomba bonyana iinqhema ziyalingana .		ilanga li-1

Iveke ye-11	Ubude besikhathi esiphakanyisweko : Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa Ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Thuthukisa imiqondo yokufanako nokuhlukileko - Beka isede yamatshwayo wabafundi phakathi kwekhaphethe. - Nikela umfundi ngamunye itshwayo lakhe lekarada. Abafundi bazama ukumadanisa amatshwayo wabo nalawo afanako asekhaphetheni. - Beka ibuthelelo lezinto etafuleni begodu uzihlukanise ngokulinganako (yinye yakho, yinye yami) **limbonelo:** 1. Beka izinto ezimbili zemihlobo efanako, isib. Amakhrayoni, ereyini etafuleni. Bawa umfundi oyedwa amadanise linye lamakhrayoni wakathitjhera nalinye lakhe. (Abafundi bafanele bathathe amakhrayoni amabili ukumadanisa inani lamakhrayoni kathitjhera. “Kwanje sinenani elilinganako elifanako lamakhrayoni”. 2. Buyelela umsebenzi ofanako ofana nongehla ngezinto ez-4 nezisi-6 ukuze abantwana bazwisise imiqondo “yokufanako/yokulinganako” 3. Uthitjhera ubeka amabhlogo amabili ngereyi etafuleni. Unikela abafundi ababili ibhlogo ngamunye. Ubawa abafundi bona bamadanise ibhlogo labo nelakhe.(Abafundi bafanele ngamunye bayokuthatha elinye ibhlogo lokumadanisa amabhlogo amabili katitjhera) “ Njenganje umuntu ngamunye unamabhlogo ama-2. Sinenani elilinganako lamabhlogo”  **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Vumela abafundi bonyana bamadanise isithombe begodu namafletjhikarada anamaqatjhazi.  - Nikela amakarada wemidlalo amadanako ngesikhathi sokudlala ngokutjhaphuluka ngaphakathi lapho abafundi bahlukanisa khona hlangana nokufanako begodu nokuhlukileko.	 Amabhlogo	ilanga li-1

Iveke ye-11	Ubude besikhathi esiphakanyisweko : Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa Ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Hlela begodu umadanise ibuthelelo lezinto ngokusebenzisa "ngaphezu kwa"** **Zomlomo:** Bala izinto zangamalanga ukufikela enomborweni u-2. **Qinisa imiqondo " nengi" begodu mbadlwana".** Wahla izandla kanengi….JAMA Wahla izandla amahlandla ambadlwana.Utitjhera uwahla izandla ukufika enomborweni yesi-2. **Okuphathelene nokusikinyeka komzimba** Abafundi batjho bonyana ngiliphi lamabuthelelo wezinto amabili eli: "nengi kuna" Vumela abafundi ba: - Bale amehlo nemino yabo. Buza umbuzo: "Ngikuphi abanakho okunengi? - Tjengisa imino emibili yesandla sinye begodu nomuno mu-1 kwesinye isandla.:Ngisiphi isandla esinemino eminengi?" - Khetha abafundi aba-3 ngokusebenzisa umdunduzelo wokubala. Babuthelele ngeenqhema zangai-2 begodu nanga-1  - Bala bonyana bangaki abafundi esiqhemeni ngasinye. Madanisa iinqhema ezimbili begodu ubuze imibuzo efana nokuthi: " Ngisiphi isiqhema esinabafundi abanengi?" Ngisiphi isiqhema esinabafundi abanengi kunoyedw?"		Ilanga li-1

Iveke ye-11	**Ubude besikhathi esiphakanyisweko :** **Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa Ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Beka iinkere ezi-2, izinto zokubala ez-3 begodu namakhrayoni ama-4 etafuleni .  - Buza imibuzo efana nokuthi: “Ngiziphi iinqhema ezinezinto ezinengi. Ngisiphi isiqhema esinokunengi ukudlula seenkere?” Ngisiphi isiqhema esinezinto zokubala ezingaphezulu kweentathu? - Beka izinto ezihlukahlukeneko eziphathekako (amaqephe, amatje, amaprobho,njll) etafuleni. Zihlele ngeenqhema (amaprobho woke ndawonye),bala inani esiqhemeni ngasinye begodu tjengisa isiqhema esinezinto ezinengi, ncani kuna, nezilingana na. Banikele ithuba lokobana basebenze ngezinto zabo zokubala. Thoma ngeenomboro ezincani. - Ukuhlanganisa: Iimumathi kufanele zinikelwe abafundi ngesikhathi sokudlala ngamanzi begodu nesokudlala ngesanda ukubanikela ithuba lokusebenza ngokulinga ngemiqondo efana nokuthi kunengi kuna, kuncani kuna, kulingana na.	Nanyana ngiziphi izinto ezingekumbeni yokufundela	Ilanga li-1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Vumela abafundi bamadanise isithombe begodu namafletjhikarada wamaqatjhazi. Thola amakarada anenani elidlula lelo olinikelwe ngutitjhera, isib. - Utitjhera uthi: Thola ikarada elineenthombe zanamaqatjhazi angaphezu kwama-2 - Metjhisa amakarada anezinto nofana izinto zokubala ezinenani elilinganako (pakela into yokubala phezulu kweqatjhazi nofana isithombe) 	Iinthombe namafletjhi karada anamaqatjhazi Izinto zokubala	

Iveke ye-12	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi Wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.1 **Ukubala izinto**	• **Ukukhumbula begodu nokubona itshwayo lenomboro begodu negama lenomboro efaka hlangana inomboro ku - 2** **Zomlomo:** Ukubala izinto zangamalanga ukufika kunomboro - 2 Ukubala uye phambili begodu uye emuva ukufika ku-2. Ukubala okungakahleleki 1-7 **Ukuqinisa imiqondo yokuthi:" kunengi" begodu "mbadlwana"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-2.	Iingoma nemidunduzelo yeenomboro	Ilanga li-1,
	Okuphathelene nokusikinyeka komzimba Vumela abafundi: - Babhampise ibholo kanye, ngamanye amagama ihlandla li-1 - Babhampise ibholo kabili, ngamanye amagama amahlandla ama-2 - Bagwale inomboro ukubili phasi begodu vumela abafundi bakhambe inomboro ukubili. - Bagwale itshwayo ukubili esandeni, emoyeni, emadini, njll. - Benze inomboro uku-2 ngehlama yokudlala. - Bathole abangani aba-2 abambethe amanyathelo.	Amabholo ihlama yokudlala	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi ba: - Dobhe into yinye yokubala . - Dobhe izinto ezimbili zokubala.	Izinto zokubala	

Iveke ye-12	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi Wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.1 **Ukubala izinto**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi: - Babone ifletjhikarada yesithombe begodu bawahlobanise nenani elifanako lezinto. - Babone amafletjhikarada ameregwe ngamaqatjhazi amabili begodu bawahlobanise nenani elifanako lezinto. - Ukubona amafletjhikarada wamatshwayo weenomboro begodu namafletjhikarada wamagama weenomboro begodu bawahlobanisa nenani elifanako lezinto zokubala. - Babone itshwayo lenomboro ku - 2 eenthombeni ezinikelwe ngutitjhera. - Kukuphi lapho okhunye la ungabona khona inomboro ku-2 ngekumbeni - Hlukanisa itlasi ngeenqhema. Banikele ithuba lokudlala ngamadomino weenomboro eenqhemeni zabo.	Amafletjhikarada aneenthomb e ezimbili, amaqatjhazi, itshwayo lenomborobegodu negama lenomboro. **Isi-thombe sento 2**  **2** **two** Izinto zokubaka Isithombe lapho kubonakala khona itshwayo lenimboro uku-2	Ilanga li-1,

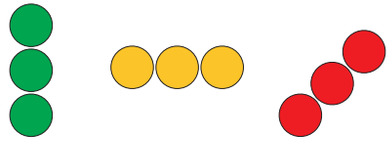
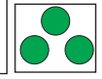
Iveke ye-12	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi Wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula begodu nokuhlathulula iinsombululo zemiraro yamagama ngomlomo (iindatjana zeembalo) eziphathelene nenomboro ku- 2** **Okuphathelene nokusikinyeka komzimba** Iimbonelo: Utitjhera ubizela umfundi mu-1 ngaphambili. Abafundi bayambala. Utitjhera ubiza omunye o-1 begodu abuze bonyana: Bangaki abafundi nababoke? Ku-1 na ku-1 → 2.(Utitjhera uthi: ku-1 na ku-1 kwenza ku- 2) 1. Utitjhera ubeka isitulo si-1. Ngeza ngasi-1ngaphezulu. Zingaki iintulo nazizoke? Ku- 1 na ku 1→ ku-2. 2. Utitjhera uphakamisela imino emi-2 phezulu. Begodu uthi: “Bala imino yami. Lokha nangifihla umuno munye, mingaki imino oyibonako? ku-2 khupha ku-1→ 1 3. Utitjhera uphakamisela imino emi-2 phezulu. Begodu uthi: “Bala imino yami. Nangingakhuphi namunye umuno, mingaki imino oyibonako? ku-2 khupha i-0 → 2 4. Kunomntwana munye ekhaya. Munye uza ukuzokudlala. Bangaki abantwana nasele baboke na? 5. Kunabantwana ababili etafuleni. Umntwana ngamunye ufuna isitulo sakhe. Ziintulo ezingaki ezifunekako na? **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Isibonelo: (Sebenzisa izinto zokubala) 1. Lokha unekuke linye begodu umma wakho akunikela elinye, uzokuba namakuke amangaki? 2. Utitjhera unezinto zokubala ezimbili esandleni sinye begodu akanazo kesinye isandla. Unezinto zokubala ezingaki sele zizoke na? 3. UKosabo uneembholo ezi-2, begodu ibholo yi-1 eyeqayeqa ikhambe. Zingaki iimbholo uKosabo asele nazo na? 4. Lokha unamabhlogo ama-2 begodu upha umngani wakho ibhlogo li-1, Mangaki amabhlogo enizokuba nawo umuntu ngamunye na?	Iingoma nemidunduzelo yeenomboro Izinto zokubala(nawunganawo amakuke) Izinto zokubala Iimbholo Amabhlogo	Ilanga li-1

Iveke ye-12	**Ubude besiKhathi esiPhakanyisiweko:** **Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi Wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Hlela begodu umadanisa ibuthelelo lezinto ngokusebenzisa " kuncani kuna"** **Zomlomo:** Bala izinto zangamalanga ukufika enomborweni ku- 2. **Ukuqinisa imiqondo yo: kunengi" begodu "mbadlwana"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla ukufika ku-2.	Iingoma nemidunduzelo yeenomboro	Ilanga li-1
	Okuphathelene nokusikinyeka komzimba (Ukufaka hlangana nobuKghwari boKwenza emaKghonweni wePilo – ukudansa) - Ukuvuma ingoma: Iinhloko namahlombe, amadolo neemzwani" ukuvuma igama elinye nelinye ihlandla lokuthoma. - Ehlandleni elilandelako awulivumi igama lokugcina, isib. "Iinhloko namahlombe, amadolo na ...., amadolo na ....amadolo na…" - Vuma ingoma,ungalivumi godu elinye igama lokugcina, isib. Iinhloko namahlombe, ... na....., ... na ....na….." - Utitjhera ukhomba bonyana njalo nabavumako kususwa linye igama bekufike lapho okungasana gama elivunywako. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Utitjhera wenza iintambo ezine zemincamo. Faka imincamo emi-3 entanjeni yokuthoma, imincamo emi-2 entanjeni yesibili, umncamo munye entanjeni yesithathu begodu imincamo emi-3 entanjani yesine. Vumela abafundi bonyana babone bonyana: - Ngiyiphi intambo enomncamo omncani khulu? - Ngiyiphi intambo yomncamo ena-1 ngaphezu kwentambo enemincamo emi-2? - Ngiyiphi intambo yomncamo ena-1 ngaphasi kwentambo enemincamo emi-3?	Umvumo: " Iinhlo amahlombe, amadolo neenzwani" Iintambo ezine ezinenani lemincamo elihlukahlukeneko .	

Iveke ye-12	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi Wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Vumela abafundi bamadanise iinthombe namafletjhikarada wamaqatjhazi. Ukubona amakarada amanengi kuna begodu namancani kunenomboro enikelwe ngutitjhera, isib. ngiliphi ikarada elingaphezu kukaku-2? - Ngiliphi ikarada elingaphasi kukaku-4? 	Yenza isithombe sakho begodu namasede wamakarada wamaqatjhazi.	Ilanga li-1
	• **Ukuqinisa ukumadanisa ibuthelelo lezinto ezimbili onikelwe lona ngokusebenzisa:** - **okunengi kuna** - **okuncani kuna (mbadlwana)** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni - 2 Ukubala okungakahleleki 1-7 **Ukuqinisa imiqondo yo: "kunengi" begodu "mbadlwana"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-2.	Iingoma nemidunduzelo yeenomboro	
	Utitjhera wenza iintambo ezimbili zemincamo. Faka imincamo emi-3 entanjeni yokuthoma, imincamo emi-2 entanjeni yesibili, Vumela abafundi babone bonyana: - Ngiyiphi intambo enemincamo emincani khulu? - Ngiyiphi intambo enemincamo eminengi? - Ngiyiphi intambo yemincamo enemincamo engaphezu kwemi-2? - Ngiyiphi intambo yemincamo enemincamo engaphasi kwemi-3? Ukuhlanganisa nobuKghwari obuBonakalako lapho abafundi baphothela khona amastro, amatjhipsi weplastiki, baquntula amajamo asikiweko anentunja evuliweko phakathi, amakari, njll.	Iintambo ezimbili ezinenani lemincamo ehlukahlukeneko	

Iveke ye-12	**Ubude besiKhathi esiPhakanyisiweko:** **Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi Wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Beka isiqhema sezinto phezu kwetafula begodu zihlukanise ngokuya nge: - Iinqhema ezilinganako (yinye ngeyakho, yinye ngeyami) - Iinqhema ezingalinganiko (madanisa ubone bonyana ngisiphi isiqhema esi nezinto ezinengi khulu/ ezincani khulu begodu ngiziphi ezifanako). - Nakuneenqhema ezimbili ezingafaniko, ngikuphi okufanele sikwenze bonyana zilingane/ zifane?	Iintambo ezimbili ezinenani lemincamo ehlukahlukeneko	Ilanga li-1
3.2 **Izinto ezibusontathu (3-D)**	• Ukuhlathulula, ukuhlela, nokumadanisa izinto ezibusontathu 3-D namajamo abusobubili 2D **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** **Ukusetjenziswa kwezinto ezibusontathu abaphathekako** Vumela abafundi: - Bahlele izinto ezihlukahlukeneko ngokuya ngobukhulu/isayizi - Bahlele begodu bamadanise amabhlogo wokwakha ahlukahlukeneko ngokuya ngobukhulu/ isayizi - (khulu begodu nencani) - Bahlele amabhlogo ngokuya ngamajamo afanako	Izinto ezihlukahlukeneko ngetlasini, ezincani nezikulu isib. Iimbholo, abonompopi, imoderana yokudlala, amabhlogo weLogi, njll. Amabhlogo wokwakha begodu neembholo zamasayizi ahlukahlukeneko	Ilanga li-1.
3.3 **Ubujamo obubusobubili (2-D)**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Hlukanisa abafundi ngeenqhema ezihlanu. Nikela isiqhema ngasinye amajamo amanengi ahlukahlukeneko. - Vumela abafundi bahlele amajamo ngokuya: o ngombala o amajamo (nanyana abafundi bangawazi amajamo). o Ubukhulu/isayizi - Sebenzisa imidlalo yamakarada ethuthukisa imibala, ubukhulu begodu namajamo.	Amajamo wama Logi nofana amanye amajamo amibalabala onawo/ akhona.	

Iveke 13	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.1 **Ukubala izinto**	• **Ukwethula ihlathululo yenomboro ku-3** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomboro ku-3 Ukubala uye phambili begodu uye emuva ukufika enomborweni ku-3. Ukubala okungakahleleki 1-7 **Ukuqinisa imiqondo yokuthi:" kunengi" begodu "mbadlwana"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-3.	Iingoma nemidunduzelo yeenomboro.	Ilanga li 1
	Okuphathelene nokusikinyeka komzimba - Utitjhera ubetha isigubhu nofana udlala ingoma. Lokha umvumo nawuphelako abafundi benza iinqhema zangabathathu - Buza abafundi bonyana bobani abanomndeni onamalunga amathathu kuphela. - Abafundi bajama emjejeni /ereyini; Utitjhera ubuza bonyana "Ngubani umuntu wesithathu ereyini na?" Hlukanisa abafundi ngeenqhema ezina ±5. Vumela abafundi ba: - Dabule amakhasi amathathu encwadini endala yeenomboro zomtato. - Tshwabanisa amakhasi amathathu uwenze abe ziimbhodlwana ezintathu ezibotjhwe zaqina ngokukg honakalako. Ukungezelela umuda wangaphakathi ohlukanisa amahlangothi womuntu abafundi abasebenzise isandla sabo esinamandla. Umfundi angahlala phezu kwesandla sakhe esinganamandla. - Vula iimbolo begodu uzitshwabanise godu. - Bala iimbholo ngemva kobana zoke zozintathu sele zitshwabanisiwe. - Ngesikhathi ubala, phosela iimbholo zontathu emantjini obekwe phakathi nesiqhema. Umsebenzi lo ungahlanganiswa nesiFundo sokuziThabulula emaKghonweni wePilo.	Abafundi ngokwabo. Izinto zokubala Iincwadi ezindala ezinerhelo lamagama wabantu kanye neenomboro zabo zomtato Umantji	

Iveke 13	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.1 **Ukubala izinto**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi bonyana: - Ukukhomba izinto ezi-3 ngekumbeni yokufundela - Ukuphakamisela phezulu imino emi-3 - Ukubeka izinto ezintathu etafuleni. Umfundi ngamunye uza etafuleni begodu ubala into ngayinye. Umfundi uthinta into ngayinye nakayibalako. Buyelela ngezinye izinto. - Bathuthukise ilemuko lokuthi inomboro ihlala injalo noma ungayijamiselela ngento enjani, ngokuvumela abafundi babeke izinto zokubala ezimbili nofana ezinye izinto ngeendlela ezihlukahlukeneko, isib.  - Lokha nawubalako, inomboro yezinto ayithikanyezwa bukhulu nofana ubujamo, nofana indawo, nanyana zingezemihlobo efanako: Isibonelo: - Hlela iinkunubhe ezi-3, amapensela ama-3, amahupsi ama-3, abafundi aba-3, njll - Zibale ngezindlela ezihlukileko, isib. Zibale zirhatjhekile, zihlalelene, ngemida nofana ngehobhu.	Izinto zookubala nofana izinto nje	Ilanga li 1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Tjengisa isithombe se “poto yesintu enemilenze emithathu” - Bala imilenze. - Vumela abafundi bacabange ngezinye izinto ezinemilenze emithathu. - Tjengisa isithombe sekarada elinezinto ezi-3. Abafundi babala iinomboro zezinto zokubala ezikhambelanako nesithombe sekarada. - Yenza okufanako ngamakarada wamaqatjhazi - Abafundi bamadanisa ikarada lamaqatjhazi namakarada weenthombe	Amafletjhikarada weenthombe Amafletjhikarada wamaqatjhazi Izinto zokubala **Isithombe sento 3** 	

Iveke 13	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukwazi amatshwayo weenomboro begodu nokukhumbula amagama weenomboro ezifaka hlangana uku- 3** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku -3 Ukubala uye phambili begodu uye emuva ukufika ku ku-3. **Ukuqinisa imiqondo yokuthi:" kunengi" begodu "mbadlwana"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-3. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Nikela umfundi ngamunye amakhyubhu weyunifiksi ama-3 - Utitjera ubatjengisa iqatjhazi, isithombe, itshwayo nofana ikarada legama lenomboro okufaka hlangana ephathelene iinomboro ku-1 ukuya ku-3. - Abafundi babala inomboro enqotjhiweko / enikelweko begodu babeka inomboro efanako yamakhyubhu weyunifiksi eminweni yabo.	Amakhyubsi wamayunifiksi Ikarada lenomboro efaka hlangana inomboro 1 ukuya ku-3 **Isithombe sento 3** 	Ilanga li-1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Balemuke: - Ukubona amafletjhikarada anenani elihlukileko leethombe kilo - Ukulemuka ifletjhikarada elinetshwayo lenomboro 3 - Ukuhlobanisa itshwayo lenomboro ku-3 nenani lezinto begodu nenani lamaqatjhazi. - Ukuhlobanisa igama lenomboro nekarada letshwayo lenomboro begodu nenani lamakarada wamqaatjhazi - Nikela umfundi ngamunye ikarada lenemboro efaka hlangana iinomboro ku-1 ukuya ku ku -3. Utitjhera uphakamisela phezulu ikarada elineqatjhazi nofana ikarada lesithombe. Abafundi baphakamisela phezulu ikarada lenomboro elimadana nenekarada lesithombe.	Amaflethjikarada ahlukahlukeneko anenani elihlukahlukeneko kelinye nelinye. Amafletjhikarada anenomboro ku-3 Amafletjhikarada ameregwe ngamaqatjhazi ama-3 **Isithombe sento 3** 	

Iveke 13	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula imiraro yokuhlanganisa begodu nokukhupha ngomlomo eneensombululo ukufika ku ku-3** **Zomlomo:** Bala izinto zangamalanga ukufika enomborweni ku- 3 Ukubala ukuya phambili begodu uye emuva ukufika ku ku-3 **Okuphathelene nokusikinyeka komzimba** **limbonelo:** 1. Utitjhera ubizela abafundi aba-2 ngaphambili. Abafundi bayababala. Utitjhera ubiza omunye oye-1 begodu ubuza bonyana:" Bangaki abafundi nababoke?" 2 na 1 → 3. (Utitjhera uthi: 2 na 1 kwenza - 3) Utitjhera ubeka iintulo ezi-3. Akangezi ngezinye. Zingaki iintulo nasele zizoke? Ku-3 na 0 → 3. Utitjhere ubeka iintulo ezi-3. Ukhupha si-1. Sekusele iintulo ezingaki nje? Ku -3 ukhupha ku-1 → 2. (ku-2 na ku-1 kukunikela ku-3) 2. Utitjhera ubizela abafundi aba-3 ngaphambili. Babaleni. Ubuyisela abafundi ababili emuva. Bangaki abafundi abaseleko? Ku -3 ukhupha ku-2 → 1 **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Nikela umfundi ngamnye izinto zokubala ezi-3. Lokha utitjhere "acoca indatjana", abafundi bapaka izinto zokubala. **Isibonelo** 1. UAna unamalamune ama-2begodu uMsongelwa umnikela elinye eli-1. UAna sekanamalamune amangaki nje? Ku -2 na ku-1 → 3. (Utitjhere uthi: ku -2 na ku-1 kukunikela ku-3) 2. Kunegatja li-1 lomuthi emthini begodu amanye amagatja ama-2 ayamila. Mangaki amagatja asemthini kwanje? Ku-1 na ku-2 → 3. **limbonelo:** 1. Ifene inamabhanana ama-3 idla li-1. Isele namabhanana amangaki? ku-3 ukhupha ku-1 → 2. 2. Kunamahabhula ama-2 emthini wamahabhula. Li-1 lamahabhula liwela phasi. Mangaki amahabhula asele emthini? ku-2 ukhupha ku-1 → 1	lingoma begodu nemidunduzelo yeenomboro lintulo Izinto zokubala ezi-3 umfundi ngamunye	Ilanga li-1

Iveke 13	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
2.1 **Amaphetheni weJiyomethri**	**Ukuzakhela amaphetheni azibuyelelako ngokusebenzisa izinto ezi- 2.** **Okuphathelene nokusikinyeke komzimba** Abafundi bahlala benzenduilungu. Bavuma amaphetheni wamagama Iimbonelo: *Ilanga, isibhakabhaka , ilanga, isibhakabhaka* *Ibhanana, i-apula, ipyere, ibhanana, i-apula, ipyere* *USusani, uJoni ,uAbi , uSusani,uJoni , uAbi.* *Bomvu, hlaza kwesibhakabhaka, hlaza kwesibhakabhaka, bomvu, hlaza kwesibhakabhaka, hlaza kwesibhakabhaka, njll* *Waka, waka, e, e, waka, waka, e, e.* **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi: - Buthelela izinto ezi-3 ezifanako ngetlasini, isib. Amakhrayoni ama-3 - Buthelela ezinye godu izinto ezi-3 ezifanako ngetlasini, isib.amabhlogo weLego ama-3 - Abafundi bazitlamela amaphetheni wabo ngokusebenzisa izinto ezimbili, isib. - ikhrayoni linye, ibhlogo leLego linye, ikhrayoni linye.... - Amakhrayoni amabili, ibhlogo leLego linye, amakhrayoni amabili, ibhlogo leLego linye……. - Vumela abafundi bona batlame amaphetheni ngeendlela ezihlukahlukeneko - Batjintjisane ngezinto zabo nomngani begodu babuyelele umsebenzi loyo.	Amakhrayoni Nanyana ngiziphi izinto	Ilanga li-1

Iveke 13	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula, ukubona begodu nokubiza amajamo abusobubili 2-D ngetlasini ukufaka hlangana neenthombe** - uncantathu • **Ukuqinisa ilwazi elizuzwe evekeni yesi 4 lokukhumbula, ukubona begodu nokubiza ngegama -uncantathu** **Okuphathelene nokusikinyeke komzimba** Gwala, nofana usebenzise irobho ukutlama umuda magega nobujamo obukhulu bakancantathu. Vumela abafundi: - Bazombeleze ijamo ngokuqala amatshwayo kancantathu Lokha nabakhambako, vumela abafundi bathi: “Ngikhamba magega noncantathu. Linye, mabili, mathathu amahlangothi, nofana linye, mabili,mathathu amahugu (ama-engele). - Utitjhera ukhomba bonyana uncantathu “unamahugu” ama 3 begodu unamahlangothi amathathu. - Gwala uncantathu emoyani begodu / nofana esandeni - Yakha uncantathu ngebumba. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi: - Ukukhumbula begodu nokubona izinto ngekumbeni yokufundela ezinejamo likancantathu. - Ukukhumbula begodu nokubona izinto zemvelo ezinejamo likancantathu - Faka imihlobo ehlukahlukeneko ngamasayizi yeendulungu naboncantathu “emgodlaneni ophethe izinto okufanele umfundi afunisele ngokuzwa/ngokuzithinta bonyana ubambe ini.” Ukubona/ ukuthola uncantathu hlangana namanye amajamo. 	Umdaka nofana iderhe yokudlala Into enguncantathu engekumbeni yokufundela begodu nebhodukulweni Yenza amakarada wakho abe nemihlobo emi-5 ehlukahlukeneko yeendulungu, aboncantathu begodu neenkwere kiwo.	Ilanga li-1

Iveke 13	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukuhlela izinto ezibusontathu 3-D begodu namajamo abusobubili 2D** - Hlela izinto ezihlukahlukeneko ngokuya ngobujamo begodu nangombala.		Ilanga li-1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Vumela abafundi: - Ukubona ubujamo bukancantathu eenthonjeni - Gwala uncantathu esiquntwini sephepha. - Kopa uncantathu ekaradeni onikelwe lona. - Gwala irengi uzungelezele zoke iindulungu ephepheni lokusebenzela. - Yenza iinthombe ngokusebenzisa aboncantathu ngesikhathi sobuKghwari obuBonakalako. - Dlala umdlalo wamakarada ongezelela othuthukisa ukuqiniswa kwamajamo.	Iinthombe okungabonwa kizo uncantathu Imidlalo yamakarada ethuthukisa ukukhumbula amajamo njengokuthi “ Kunani ngesikwereni” Amajamo weLogi, njll.	

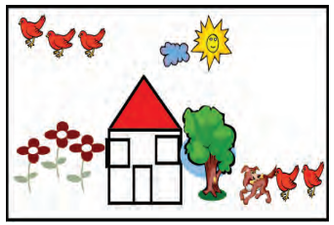
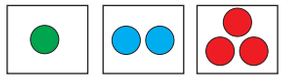
Iveke 14	**Ubude besiKhathi esiPhakanyisiweko:** **Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elizuziweko elifaka hlangana iinomboro ku-3** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 3. Ukubala uye phambili begodu uye emuva ukufika ku-3. Ukubala okungakahleleki 1-7 **Ukuqinisa imiqondo elandelako:" nengi" begodu "mbadlwana"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-3.	Iingoma nemidunduzelo yeenomboro.	Ilanga li-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi bonyana: - Bathole izinto ezi-3 ezibomvu ngekumbeni yokufundela. - Babumbe inomboro ku-3 ngomdaka - Babumbe ngomdaka iimbholo ezikulu ezintathu - Babumbe ngomdaka iimbholo ezincani ezintathu - Bathole abafundi aba-3 ngekumbeni yokufundela abambethe imibala efanako.	Izinto ezibovu. Umdaka	

Iveke 14	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula nokuhlathulula ngomlomo iinsombululo zemiraro yamagama (iindatjana zeembala) ezifaka hlangana inomboro ku-3** **Zomlomo:** Bala izinto zangamalanga ukufika enomborweni ku- 3 Ukubala uye phambili begodu uye emuva ukufika ku -3. **Okuphathelene nokusikinyeka komzimba** Iimbonelo: 1. Utitjhera ubizela abafundi aba-2 emadini bese ubiza omunye umfundi godu. Bangaki abafundi utitjhera ababizele emadini? Utitjhera uthi: ku-2 na ku-1 kwenza ku-3 2. Kunabantwana abathathu. Umntwana ngamunye ufuna amakhrayoni wakhe. Mangaki amakhrayoni esiwathlogako? 3. Abafundi abathathu bajame ndawonye. Munye wabo uphuma ngekamurweni. Bangaki abafundi abasele ngekamurweni. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Iimbonelo: 1. titjhera ubeka izinto zokubala ezi-3 etafuleni. Ususa izinto zokubala ezimbili. Zingaki izinto zokubala ezisele etafuleni? Utitjhera uthi ku-3 ukhupha ku-1 kukunikela ku-2. 2. UPhethi unabokatsu aba-2 begodu uthole omunye ukatsu o-1 kuBusi. Bangaki abakatsu bakaPhethi nasele baboke? Ku-1 naku-2 → 3. Utitjhera uthi ku-1 naku-2 kukunikela 3 3. Lokha ukatsu o-1 anomsila mu-1, abokatsu abathathu bazokuba nemisila emingaki neyihlangeneko? Ku-1 naku- 1 naku- 1 → 3	Abafundi Izinto zokubala	Ilanga li-1

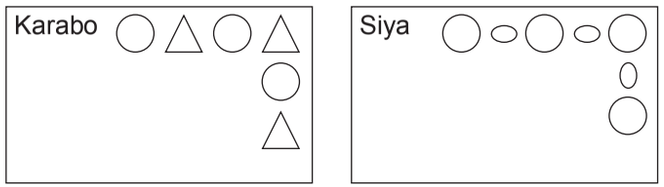
Iveke 14	**Ubude besiKhathi esiPhakanyisiweko:** **Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
2.1 **Amaphetheni weJiyomethri**	• **Ukuqedelela iphetheni onikelwe yona ngezinto ezi-2** **Okuphathelene nokusikinyeka komzimba** - Vumela abafundi bakope iphetheni yomsikinyeko isib. Yeqa yeqa,yeqa,yeqa,yeqa , yeqa, yeqa ..... - Abafundi baqedelela amaphetheni ngokusebenzisa imizimba yabo, isib. Bajame omunye hlanu komunye batjintjaneizandla zibe sehloko, izandla zibe seenyongeni, izandla zibe sehloko, ... **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Vumela abafundi bakope iphetheni yento ethileko, isib. Umncamo, umncamo, ilithi, umncamo, umncani, ilithi.....	Nanyana ngiziphi izinto	Ilanga li-1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Utitjhera unikela abafundi iinthombe ezihlukahlukeneko zezinto ezifanako ezisikelwe safuthi. (Sika iinthombe ngesikhathi semsebenzi wobuKghwari obuBonakalako.) - Utitjhera uthoma iphetheni begodu abafundi bafanele bakopa iphetheni leyo, isib. isithombe sekofi, setiye, setjhukela …. - Vumela abafundi baqedelele iphetheni ngokugwala: - Ithuthumbo, ikari, ithuthumbo .... - Indulungo ehlaza kwesibhakabhaka, indulungu ebovu, indulungo ehlaza kwesibhakabhaka …..njll.	Iinthombe zeenkhangiso Iphepha le-A4 namakhrayoni	

Iveke 14	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
3.2 **Izinto ezibusontathu (3-D)**	• **Ukuhlela begodu nokumadanisa izinto ezibusontathu 3-D begodu namajamo abusobubili 2-D ngokuya ngamatshwayo athileko.** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Hlukanisa abafundi ngeenqhema ezi-5 - Utitjhera ubuthelela izinto ezeneleko ukwenzela bona isiqhema ngasinye sikghone ukuzihlela ngokuya okungasenani ngamatshwayo amabili (kungaba kunengi). - Nikela isiqhema ngasinye izinto ezinamatshwayo amabili bonyana siwahlele. Vumela abafundi**:** - Bahlele izinto ngokuya ngezinto ezifanako nezihlukileko. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Gcina abafundi esiqhemeni esifanako. - Madanisa begodu uhlela iinthombe ezihlukahlukeneko ezibuthelelwe ngutitjhera, isib. Iinthombe zemihlobohlobo yezambatho, ukudla, ifenitjhara, iinthuthi, njll - Vumela abafundi baqedelele incwadi yokusebenzela emadanisa iinthombe ezimbili, isib. Isibha sokuhlamba amazinyo begodu nebhratjhi yamazinyo, ivasilabhi begodu nesibha.	Izinto ezifana na: Iimpahla ezihlukahlukeneko Iinthelo ezihlukahlukeneko Iimbandana zemaplasini zamaplastiki ezihlukahlukeneko Amajamo wejiyomethri ahlukahlukeneko Amabhlogo wokwakha ahlukahlukeneko Amabhlogo weLego ahlukahlukeneko Izinto ezihlukahlukeneko zemvelo njengamakari, izinti / amalithi, amatje, njll. Iinkunubhe ezihlukahlukeneko, njll. Iimvalo zamabhodlelo zemibala ehlukahlukeneko Amakhrayoni ahlukahlukeneko Buthelela iinthombe kibomagezini namaflaya. Zisike uzinamathisele emakaradeni	Ilanga li-1

Iveke 14	Ubude besiKhathi esiPhakanyisiweko: Umsebenzi wetlasi owodwa ohleliweko okhokhehlwa ngutitjhera (indulungu) ya ya± amaminithi ama-30 ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	• **Ubujamo bezinto ezi 3-D ezimbili nofana ngaphezulu lokha nawuzihlobanisa nomfundi** - **Ukuqinisa imiqondo elandelako: "phezulu kwa/ ngaphasi kwa" begodu "phezu kwa"** **Okuphathelene nokusikinyeka komzimba** Umfundi ngamunye uhlala esitulweni. - Abafundi batjengisa u**phezu** non**gaphasi** ngokulandela iinlayelo zikatitjhera, isib. Hlala phezu kwebhoksi, lala ngaphasi kwebhoksi nofana kwetafula. - Hlala ngaphasi kwetafula. Zirhunyeze ngendlela ongakghona ngayo ngaphasi kwetafula. - Jama phezu kwesitulo sakho begodu uzilulele phezulu ngokukghona kwakho. - Khwela phezu kwetafula begodu jikisa/ jinkisa imikhono wenze iindulungu ezikulu/ ezincani. Ragela phambili usebenzise ekudlwana/ encazana - Beka ibhlogo ehlokweni yakho begodu ukhwele phezu kwetafula. - Khetha abafundi abahlanu ngokusebenzisa umdunduzelo wenomboro - Hlebela umfundi ngamunye isilayelo. o Hlala ubeke izandla zakho ngaphasi kwemilenze o Jama ubeke izandla zakho enyongeni o Jama ubeke izandla zakho ngemva kwakho o Hlala ubeke izandla zakho emahlombe o Jama ubeke izandla zakho zivundle ngaphambi kwakho Abafundi bajama ngaphambili lokha isiqhema soke nasihlala emadini. Buza abafundi bonyana: - Umfundi wokuthoma wenzani? (*Uhlezi)* - Zikuphi izandla zakhe? *(Izandla zakhe zingaphasi kwemilenze yakhe*) - Buyelela ngabanye abafundi ngokusebenzisa: lesibili, lesithathu, lesine begodu nelokugcina. - Khetha isiqhema esitjha esizokwenza iinlayelo ezifanako. - Khuphela abafundi ngaphandle begodu bavumele batjengise imiqondo "phezu kwa", "ngaphasi kwa"begodu nongaphezulu ngokuthi bazisungulele bona ngokwabo.	Abafundi Ibhoksi  phezu kwe ngaphasi	Ilanga li-1

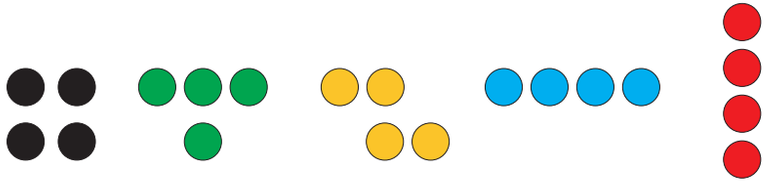
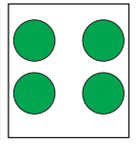
IVEKE YAMA-15	Isikhathi esiphakanyisiweko sokuthintana Umsebenzi weklasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) imizuzu ema- 30 ngelanga (± 5 imisebenzi yeembalo ngeveke.)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elizuziweko elifaka hlangana iinomboro 1, 2 naku-3** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 3. Ukubala uye phambili begodu uye emuva ukufika ku-3. Ukubala okungakahleleki 1-7 **Qinisa imiqondo yokunengi begodu nokumbalwa.** Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-3.	Umdunduzelo weenomboro neengoma	Ilanga eli-1
	Okuphathelene nokusikinyeka komzimba Khuthaza abafundi ukuthola: - Isitho si-1 somzimba esingasikinyeka ukuya phezulu naphasi , siye ehlangothini linye nangekelinye ngokwaso.isib. ilimu. - Izitho zomzimba ezi-2 ezisetjenziselwa ukweqa isib. Imilenze.	Imizimba yabafundi Ukuvuma nokulingisa ingoma isib.. ‘ Bebabathathu embhedeni begodu….. Imidunduzelo yokubala, isib kunye kubili, Bopha inyathelo lami.	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi bathuthukise imiqondo yeenomboro ngoku: - Sebenzisa amabhlogo ama-3 ukwakha umbhotjhongo. - Thola izinto ezi-3 ngeklasini ezinombala obovu. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Utitjhere ugwala isithombe esibulula. - Utitjhere ubuza umbuzo ophathelene nenani lezinto ezisesithombeni isib. Mangaki amafesdere owabonako njll.	Amabhlogo Izinto ezibovu 	
1.2 **Ukubala uyephambili nemuva**	• **Sebenzisa inomboro 1, 2 naku 3 ebujameni obujayelekileko.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku-3. Ukubala uye phambili begodu uye emuva ukufika ku-3 **Qinisa imiqondo yo”kunengi” kunye no”kumbalwa”.** Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-3. - Khuthaza abafundi bona bakhumbule ngehloko iinomboro zabo zendlu kunye nesiphande sesitradeni. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi ba: - Fune iinthombe ezineenomboro ku-1, 2 naku 3 kibomagazini begodu nakumaflaya begodu uzinamathisele ephepheni (Hlanganisa nobuKghwari obuBonakalako) - Metjhisa inani lezinto nenani lamaqhatjhazi akumaflejhikarada. - Khomba ikarada elineqatjhazi. Abafundi balahlela inani elilinganako lemigodla yamabhontjisi ngaphakathi kwebhoksi. - Dlala umdlalo webhodi. “Yeenyoka kunye namalere” begodu namadomino.	Iingoma nemidunduzelo yeenomboro Amamagazini, iinkhangiso. Amaflejhi karada anamaqatjhazi.  Imigodla yeembhontjisi “Iinyoka kunye namalere” Amadomino.	Ilanga li-1

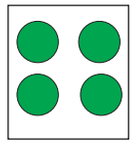
IVEKE YAMA-15	Isikhathi esiphakanyisiweko sokuthintana Umsebenzi weklasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) imizuzu ema- 30 ngelanga (± 5 imisebenzi yeembalo ngeveke.)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
Tjheja: Iinomboro zisizombelezile lapho sikhona: - Indlu enye nenye inenomboro - Soke sineenomboro ezihlukeneko zomtato. - Sibona iinomboro emafesdereni weentolo. - Sibona iinomboro emikhiqizweni ehlukeneko nasithengako. - Sibona iinomboro eenkoloyini.			
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Hlela begodu umadanisa izinto ezibuthelelweko ngokusebenzisa “kunengi kuna”,”kuncani kuna” begodu “nokulingana na” ukufika enomborweni ku-3** **Okuphathelene nokusikinyeka komzimba.** Bizela abafundi aba-3ngaphambili. Bavumele bahlale ngendulungu. - Vumela abafundi ababili bajame/basikime . Bangaki abahleziko? Babale. Bangaki abajamileko? Babale. Ngiliphi inani elinengi/elinengi khulu /. Ngiliphi inani elincani/elincani khulu - Vumela abafundi abathathu bajame. Babale. Ngiliphi inani elinengi /elinengi khulu.Vumela omunye godu ajame. Babale. Kghani inani labafundi abahleziko lidlula inani labafundi abajamileko? - Buyelela ngeenomboro ukusuka keyoku-1 ukufika keyesi-3. - Bala abantazana. Bala abesana. Ngabe inani labesana lidlula labentazana? **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Hlukanisa abafundi ngeenqhema ezi 5 Nikela esinye nesinye isiqhema isiquntu sentambo/iwulu ±5 yezinto. Abafundi bakha isidleke ngewulu. - Utitjhere uhlebela isiqhema ngasinye asibawa bona sakhe iinqhema zezinto ezi-3 namkha ezi-2 namkha si-1 “eendlekeni” zabo. - Abafundi kufanele babone bona ngisiphi isiqhema esinezinto ezidlula ke-1. - Ngisiphi isiqhema esinezinto ezincani kunezii-3? - Ngisiphi isiqhema esinenani elilinganako lezinto?	Intambo Izinto ezi-5 esiqhemeni ngasinye	Ilanga li-1

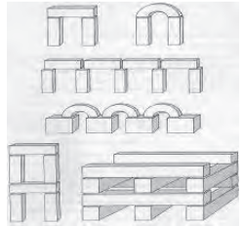
IVEKE YAMA-15	**Isikhathi esiphakanyisiweko sokuthintana** **Umsebenzi weklasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) imizuzu ema- 30 ngelanga (± 5 imisebenzi yeembalo ngeveke.)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
2.1 **Amaphetheni weJiyomethri**	• **Kopulula begodu uzalise/uqedelele iphetheni enikelweko ukuya ngemibala, obovu, ohlaza kwesibhakabhaka, osarulani.** **Okuphathelene nokusikinyeka komzimba.** - Utitjhere ulingisa iphetheni ethileko. Uyayibuyelela godu agcine igido Isib. o Wahla, thwahla (imino), wahla, thwahla o Thwahla, wahla, gida, thwahla,wahla ,gida. o Wahla, thwahla, thwahla, wahla, thwahla, thwahla. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Utitjhere unikela omunye nomunye umfundi izinto zokubala nofana iimvalo zamabhodlhelo ezi-3 ezibovu, nezi 3 ezihlaza kwesibhakabhaka begodu nezi 3 ezisarulani. Vumela abafundi ba: - **Kope** iphetheni enikelweko ephethenini katitjhere isib. bovu, bovu, hlaza kwesibhakabhaka, sarulani, sarulani.(Buyelela amahlandla ambadlwana ngephetheni ehlukileko) - **Qedelela / Zalisa** iphetheni enikelweko isib.ehlaza kwesibhakabhaka, esarulani ebovu……. (Buyelela amahlandla ambadlwana ngephetheni ehlukileko.) - Vumela abafundi bahlukanise izinto zokubala ukuya ngemibala emithathu ehlukeneko.	Umfundi omunye nomunye umukela izinto zokubala namkha iimvalo zamabhodlela zi-3 ezibovu ,zi-3 ezihlaza kwesibhakabhaka, begodu nazi-3 ezisarulana.	Ilanga li-1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Nikela umfundi omunye nomunye isiquntwana sephepha. - Vumela abafundi bona bazalise/ baqedelele amaphetheni wezinto zobujamo obubusobubili njengomkhawulo. - Zalisa / qedelela isithombe ngesikhathi sobuKghwari obuBonakalako ngokugwala isithombe phakathi. 	Omunye nomunye umfundi iphepha le A4. Amakhrayoni.	

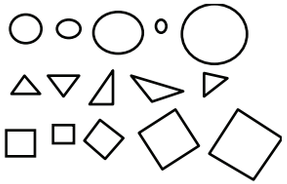
IVEKE YAMA-15	Isikhathi esiphakanyisiweko sokuthintana Umsebenzi weklasi owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) imizuzu ema- 30 ngelanga (± 5 imisebenzi yeembalo ngeveke.)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sobude besikhathi**
4.2 **Ubude**	**Madanisa begodu uhlele ngokuphathekako izinto ngokusebenzisa ilwazi magama elifaneleko ukuhlathulula ubude** - **ede, efitjhani,** - **edanyana, efitjhazana** - **ede khulu, efitjhani khulu.** **Okuphathelene nokusikinyeka komzimba.** - Vumela umfundi munye abhambalale phasi begodu boke abanye abafundi babeke amabhlogo ngokulandelana emaqadi womzimba wakhe. - Utitjhere ubawa iklasi/isiqhema ukwakha enye nenye into efitjhani kunomngani wabo namkha ede kunomngani wabo.	Amabhlogo wokwakha.	Ilanga li-1
	Vumela abafundi ukuthola: - Ngisiphi isakhiwo esidanyana? - Ngisiphi isakhiwo eside khulu? - Ngisiphi isakhiwo esifitjhazana? - Ngisiphi isakhiwo esifitjani khulu?		
	Vumela abafundi bahlele imihlobohlobo yamamatheriyali: - Ukusuka kede khulu ukufika kefitjhani khulu. - Ukusuka kefitjhani khulu ukuya kede khulu. - Vumela abafundi bamadanise ubude bezinto ezihlukeneko. Utitjhere unikela abafundi iinquntu zewula namkha intambo. Khuthaza abafundi bona balinganise ngaphambi kokumeda. Vumela abafundi bamede: - Iinhloko zomunye nomunye. - Iinyawo zomunye nomunye. - Iingogoriyana zabo. - Iinhlakala zabo. - Vumela abafundi bamadanise ubude obuhlukeneko ngokuqala bona ngiyiphi intanjana / umtletle omude namkha omfitjhani isib. Umtletle wokulinganisa ihloko mude kunomtletle wokulinganisa isihlakala sami. - Vumela abafundi bathole bona iinlinganiso zabo bekungezinembako na	Intambo Irobho Imitletlana yamamatheriyali. Amakhrayoni wobude obuhlukeneko. Iwula namkha intambo Abafundi	

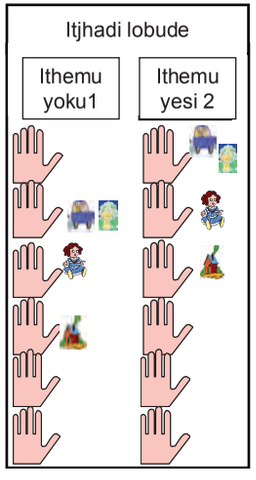
IVEKE YE-16	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke.)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiwekonyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Ukwethula ihlathululo yenomboro ku-4** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 4. Ukubala uye phambili begodu uye emuva ukufika ku-4. Ukubala okungakahleleki 1-7	 Iingoma nemidunduzelo yokubala Imizimba yabafundi	Ilanga li-1
	Qinisa imiqondo "yokunengi" begodu "nokumbalwa". Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-4. **Okuphathelene nokusikinyeka komzimba.** Vumela abafundi uku/ u: - Sikinya ihloko zabo amahlandla ama-4. - Kwenza inomboro ku-4 ngokusebenzisa imizimba yabo. Abafundi bayakhetha bona bangaki abantwana ababafunako/ ababathlogako. - Abafundi bavala amehlo wabo.Utitjhere uqoqoda itafula amahlandla ama-4. Bavula amehlo wabo begodu batjho nokobana bezwe kuqoqodwa kangaki. Buyelela ngeenomboro uku-1 ukufika ku-4.		

IVEKE YE-16	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke.)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiwekonyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi uku/ u: - Kwenza inomboro -4 ngehlama yokudlala. - Thola abangani abane abambethe ananyathelo - Thola izinto ezi-4 eziyindulungu. - Bopha amehlo wabafundi begodu ubavumele ukubona iinomboro ku-1 ukufika keye-4 ngokuzwa/ngokugadangisa umtlhala wamakarada weenomboro ezimakghwakghwa. - Bathuthukise ilemuko lokuthi inomboro ihlala injalo noma ungayijamiselela ngento enjani, ngokuvumela abafundi babeke izinto zokubala ezine nofana ezinye izinto ngeendlela ezihlukahlukeneko, isib.  - Lokha nakubalwako, inani lezinto alithintwa yisayizi yazo, namkha indawo namkha ngabe ngezomhlobo ofanako. Isibonelo: - Hlela iinkunupe ezi-4, amapensela ama-4, amahula wupsi ama-4, abafundi aba-4 njll. - Zibale ngendlela ehlukahlukeneko ehlelekileko Isib. zibale zirhatjhekile, zoke zisemaduzana, emudeni namkha zipakelene. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi uku: - Funa iinthombe ezi-4 begodu banamathisele iinthombe ephepheni. - Metjhise inani lezinto nenani lamaqatjhazi aphezu kweflejhi karada. - Ukubona iflejhi karada elinamaqatjhazi amane.	Iderhe yokudlala. Izinto ezindulungu. Yenza isede yamakarada weenomboro amakghwakghwa ngokusika ukhiphe iinomboro kusani phepha begodu azinamathisele phezu kweentokana zamabhodi. Lokha nawunamathisela amakarada lawo, abafundi bangawasebenzisa ukwakha inomboro ngebumba phezu kwekarada. Izinto ezi-4 zokubala namkha izinto ezi-4 zinikelwa umfundi ngamunye Amamagazini, amaflaya, iinkhangiso Iphepha le A4 kunye nesinamathiseli. **Isithombe sento 4** 	Ilanga li-1

IVEKE YE-16	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke.)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiwekonyulwako**	**Isilinganiso sesikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Sebenzisa inomboro ku-4 ebujameni obujayelekileko.** - Inomboro ku-4 ikwenza ucabange ngani? Imodere - amavilo amane Isitulo - imilenze emine Inja - iindladla ezine Itafula - imilenze emine - Ukuthuthukisa ukukhumbula, khuthaza abafundi bona bakhumbule ngehloko iinomboro zabo zendlu kunye nesiphande sesitradeni. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Banikele ithuba lokudlala umdlalo wamakarada weenomboro akhona ngetlasini lakho. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Tjengisa ikarada letshwayo lenomboro ku-4 Dlala imidlalo efana ne: - Nangabe inomboro yendlu yekhenu ino-4 , wahla amahlandla ama-4. - Thola umngani ngetlasini onenomboro yendlu efana neyakho. (Abafundi babuza abangani babo iinomboro zezindlu zemakhabo.) - Ngubani inomboro yakhe ingaphezulu kwaka ku-4? - Tjengisa abafundi iflejhi karada elinamaqatjhazi amane. - Ukubona iflejhi karada elineenthombe ezine kilo.	Iimphande zabafundi zemakhaya Abafundi **4** Umdlalo omunye nomunye okhona wamakarada weenomboro **Isithombe sento 4**  Amaflejhi karada aneenthombe ezi-4 namaqatjhazi ama-4.	Ilanga li-1

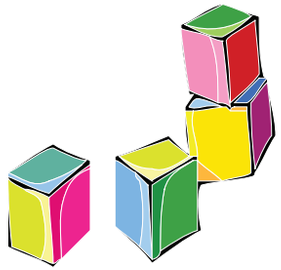
IVEKE YE-16	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke.)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiwekonyulwako**	**Isilinganiso sesikhathi**
3.2 **Izinto ezibusontathu (3-D)**	• **Ukuhlola ikghonakalo /okungenzeka ngamabhlogo wokwakha.** Vumela abafundi uku: - Sebenzisa nanyana ngimaphi amabhlogo amane ukwakha umakhiwo. - Yakha isakhiwo esinamabhlogo ama-3 ukuya phezulu begodu namabhlogo ama-5 avundlako. - Sebenzisa amabhlogo amanengi ngokuthanda kwabo ukwakha isitimela - Ukubona bona ngubani owakhe isitimela eside khulu. - Yakha umbhotjhongo ophakemeko (ojame rwe) - Yakha umakhiwo osipara isib.indlela namkha indlu (ethabaleleko) - Ukubona bona ngubani owakhe umbhotjhongo ophakeme khulu. - Nikela amabhlogo wokwakha ngesikhathi sokudlala ngokutjhaphuluka ngendlini ukwenzela bona abafundi baragele phambili ukuhlola amabhlogo wokwakha.	Amabhlogo wokwakha isib. 	Ilanga li-1
3.3 **Ubujamo obubusobubili** **(2-D)**	• **Ukuthuthukisa ikghono lokuhlukanisa hlangana namajamo ebhodulukweni, ngokungatjheji isayizi, nofana isayizi ye-engeli.** - **Ukungatjhugululi ijamo. (ubujamo buhlale bunjalo)** **Okuphathelene nokusikinyeka komzimba.** Vumela abafundi ukuba ngeenqhema zangaba-3: - Babhambalale phasi benze uncantathu ngemizimba yabo. Yitjho ebafundini bona nanyana uncantathu wesinye nesinye isiqhema iqaleka ihlukile , ijamo lakancantathu lihlala linjalo. - Utitjhere ugwala eflurwini/ phasi aboncantathu abahlukeneko isib.  - Abafundi bakhamba magega namahlangothi wejamo begodu nelemuko lama-engeli ahlukahlukeneko ngemizimba yabo. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Sebenzisa iingojwana ezili-7 begodu uzibeke emudeni ojame rwe. 	Abafundi Iingojwana ezili-7 umfundi ngamunye	Ilanga li-1 Khetha kwaphela munye umsebenzi ophathelene nesikinyo lomzimba, okuphathekako kunye nekupheze kuphatheke.

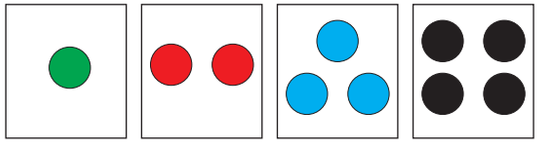
IVEKE YE-16	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke.)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiwekonyulwako**	**Isilinganiso sesikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	- Sebenzisa iingojwana ukwenza umuda otjhigamileko.  - Sebenzisa iingojwana ukwenza umuda omazombezombe.  - Sebenzisa iingojwana ukwenza uncantathu..  - Yitjho bona aboncantathu babafundi abafani khulu kodwana woke amabumbeko kusese ngewakancantathu.		
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Utitjhere ugwala iindulungu, aboncantathu begodu neenkwere ezi-5 phezu kweflesjhi karada isib.  Utitjhere uhlukanisa abafundi ngeenqhema. Vumela abafundi uku: - Ukukhumbula amafletjhi karada waboncantathu hlangana namanye amabumbeko.	Amakarada aneendulungu, aboncantathu, begodu nenkwere ezi-5 ezihlukeneko phezu kwawo.	

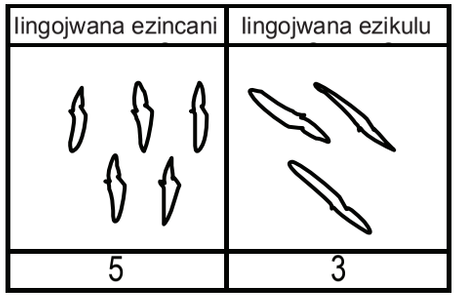
IVEKE YE-16	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke.)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiwekonyulwako**	**Isilinganiso sesikhathi**
4.2 **Ubude**	**Ukumadanisa begodu uhlele izinto gokuphathekako usebenzise ilwazimagama elifaneleko ukuhlathulula ubude.** - ubude,ubufitjhani, - okudanyana, okufitjhazana, - okude khulu, okufitjhani khulu, - fitjhani, fitjhazana ,fitjhani khulu. - Okude ,okudanyana, ,okude khulu. • **Qinisa imiqondo yobude.** **Okuphathelene nokusikinyeka komzimba.** Vumela abafundi uku: - Hlola ubude ngokumadanisa izinto enye nenye. - Ukubona bona ngiyiphi into ede khulu begodu nento efitjhani khulu. - Madanisa ubude babafundi ababili begodu ubone bona ngimuphi umfundi omfitjhani begodu ngimuphi omude. - Madanisa ubude babafundi abangaphezu kw ababili begodu ubuze imibuzo efana nokuthi:"Ngimuphi umfundi omfitjhani khulu, begodu ngimuphi umfundi omude khulu". - Utitjhere umeda abafundi godu ngokusebenzisa itjhadi lobude elisethemini yokuthoma. - Utitjhere uzokutjhiya amarekhodo wethemu egadungileko(izandla ezinamatshwayo / iinthombe zabafundi.)ukuze bakghone ukumadanisa iinlinganiso ezimbili. - Abafundi bathola bona bakhule kangangani kusukela ngethemu egadungileko. - Ngubani ongakhenge akhule nakancani? - Ngubani okhule khulu emva kwethemu yokuthoma ?Isib. o USipho ukhule ngobude besandla sinye. o Ubude baka Abby buhleli bunjalo.	Amapensela, irobho, iintambo amapheksi, njll. Ubude besandla Itjhadi lobude  	Ilanga li-1

Iveke ye-17	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Qinisa ilwazi elizuziweko lehlathululo yenomboro ku-4** **Zomlomo:**Ukubala izinto zangamalanga ukufika enomborweni ku- 4. Ukubala uye phambili begodu uye emuva ukufika ku-4. **Qinisa imiqondo "yokunengi" kunye "nokumbalwa".** Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-4.	Iingoma nemidunduzelo yeenomboro.	**Ilanga li-1**
	Okuphathelene nokusikinyeka komzimba. Vumela abafundi uku: - Gadangisa umthlala wenomboro ku-4 emoyeni ngokusebenzisa umuno.. - Vuma ingoma isib . 'Amabhodlelo ahlaza amane alenga ebodeni.....' - Jika mazombe amahlandla ama-4.		
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi ukuthuthukisa umqondo wenomboro ngoku: - Gwala inomboro ku-4 esandeni. - Thola izinto ezi-4 zobujamo obubusontathu 3-D ezingagedeka. - Ukwakha amaphazeli ngeentokana ezi-4. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere ukhetha amafletjhi karada amane wamagama. Utitjhere umeruzisa igama begodu emva kwalokho isithombe sethoyisi namkha isilwana. - Umfundi ekumeruziswe igama lakhe wenza itjhada elifana nelenziwe yithoysi. - Buyelela kufika kumeruziswa womane amagama. - Buza bonyana magama waqbafundi amangaki engiwameruzisileko? Ubone iinthombe zamathoysi/iinlwana ezingaki?	Ithreyi esipara yokubhaga/ibhoksi elinehlabathi Izinto zobujamo obubusontathu obungagedeka. Amaphazeli weentokana ezi-4. Ikarada elinesithombe sethoyisi Amakarada anesithombe sesilwana.	

Iveke ye-17	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukwazi amatshwayo weenomboro begodu nokukhumbula igama lenomboro ku-4** **Zomlomo:**Ukubala izinto zangamalanga ukufika enomborweni ku- 4. Ukubala uye phambili begodu uye emuva ukufika ku-4.	Iingoma nemidunduzelo yeenomboro	**Ilanga li-1**
	Qinisa imiqondo "yokunengi" kunye "nokumbalwa". Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-4. **Okuphathelene nokusikinyeka komzimba.** - Tlola inomboro kune emoyeni, phasi begodu nemgogodlhweni womnganakho. - Phakamisa imino emine. - Utitjhere ubetha isigubhu, isigubhu nasithulako, abafundi babumba iinqhema zangabane.		
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Tjengisa abafundi ifletjhikarada elinetshwayo lenomboro ku-4. - Ukubona igama lenomboro efletjhikaradeni lenomboro. - Hlobanisa igama lenomboro nenani elifanako lenomboro yezinto.	Ifletjhikarada elinetshwayo lenomboro Ifletjhikarada elinegama lenomboro kune. zinto ezibusontathu **4** **kune**	

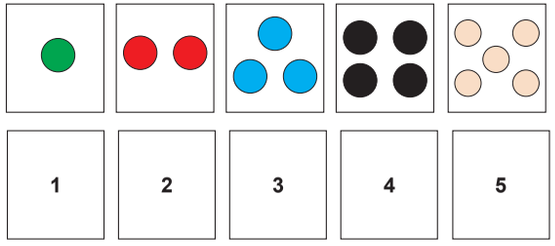
Iveke ye-17	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula begodu uhlathulule iinsombululo zemiraro yeembalo zamagama ngomlomo (iimbalo zendatjana)ezifaka hlangana inomboro ku-4.** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Iimbonelo: 1. Utitjhere ukunikela amabhlogo ama-2 begodu unamanye amabhlogo ama-2. Mangaki amabhlogo osele unawo nasele awoke? 2. Lokha uneendulungu ezi-2 ezihlaza kwesibhakabhaka begodu unendulungu ezi-2 ezibovu, zingaki iindulungu onazo nasele zizoke? 3. USipho unamakhrayoni ama-4 begodu UJoyi unekhrayoni eli-1. Ngubani onamakhrayoni amanengi? 4. Lokha uJodi anabonompopi aba-4 begodu alahlekelwe ngunompopi mu-1, uzakusala nabonompopi abangaki? Hlukanisa abafundi ngeenqhema. - Nikela isiqhema ngasinye iwobhu lezinto isib. Amapensela, amakhrayoni, amakopi, amajamo. Vumela abafundi babelane ilunga ngalinye esiqhemeni izinto ebazimukelileko (kunye nakunye okukhambelanako). - Buza imibuzo efana nalo:" Zikhona ezinye izinto eziseleko na? - (Utitjhere kufanele aqinisekise bona kunezinto ezinengi kunenani labafundi esiqhemeni.(Susa izinto ukutjengisa godu ukwabelana ngokulinganako)	 Amabhlogo Amakhrayoni Iindulungu ezihlaza kwesibhakabhaka begodu nezibovu Abonompopi Izinto ezaneleko (yinye umfundi ngamunye)ezifana namapensela, amakhrayoni, amakopi, amajamo	Ilanga li-1

Iveke ye-17	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Hlela begodu umadanisa izinto ezibuthelelweko ngokusebenzisa "kunengi kuna","kuncani kuna" begodu "nokulingana na" ukufika enomborweni yesi-4** Hlukanisa abafundi ngeenqhema. - Utitjhere unikela isiqhema ngasinye izinto zokubala ezi-4 begodu neentokana ezimbili zewula. Vumela iinqhema uku/ u: - Ukwakha iindulungu ezimbili (amasede) ngewulu. - Ngokulandela imiyalo katitjhere, babeka izinto zokubala esedeni ngayinye. - Amalunga wesiqhema ayatjheja bona ngiyiphi isede enezinto zokubala ezinengi kunenye. (ezinengi kuna). - Ngiyiphi indulungu enezinto zokubala ezimbalwa kunye? (ezincani kuna) - Ngiyiphi indulungu enenani lezinto zokubala ezilingana nenye ? (okulingana na) **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Hlela isede yamakarada weenthombe ngendlela ehlelekileko.isib. **Isithombe sento yi-1** **Isithombe sezinto ezi-2** **Isithombe sezinto ezi-3** **Isithombe sezinto ezi-4** Hlela isede yamakarada wamaqatjhazi ngendlela ehlelekileko.isib.  - Buza imibuzo efana nokuthi "Ngiliphi ikarada elinezinto/amaqatjhazi amanengi? - Ngiyiphi inomboro enengi kunakubili njll?	I wula/intambo Izinto zokubala ezi-4	Ilanga li-1

Iveke ye-17	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
5.1 **Ukubuthelela nokuhlela izinto ngemihlobo**	• **Thuthukisa indlela yokuphatha idatha.** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Vumela abafundi babuthelele iingojwana ezili -9. - Hlela iingojwana ngokuya ngobuncani begodu nobukhulu besayizi	Abafundi benza ibuthelele labo leengojwana	Ilanga li-1
5.2 **Ukujamiselela ibuthelelo lezinto elihlelekileko**	**Gwala igrafu ukubonisa idatha** **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Yenza igrafu yeenthombe ngeengojwana. - Abafundi bapaka iingojwana phezu kwegrafu yeenthombe ngokuya ngesayizi .okutjho .ukuthi ubuncani nobukhulu.  	Incwadi yokusebenzela yegrafu yeenthombe. Utitjhere uzokutlamela umfundi ngamunye iphepha le-A4 elinamakholomu afaneleko.	
5.3 **Coca bewubike ngokuhlelwa kwezinto ezibuthelelweko**	**Ukufunda begodu urhumutjhe igrafu.** - Khuluma ngemiphumela ngokubuza imibuzo isib. Zingaki iingojwana ezincani ezikhona lapha? Zingaki iingojwana ezikulu ?Ngiziphi ezinengi khulu/ezincani khulu ?		

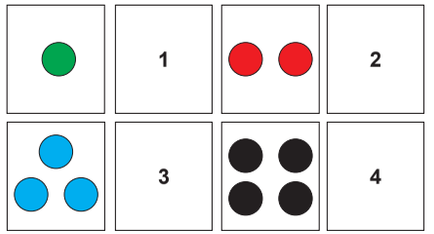
Iveke ye- 18	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke).**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Qinisa ilwazi elizuziweko okufaka hlangana iinomboro 1, 2, 3, na ku-4.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 4. Ukubala uye phambili begodu uye emuva ukufika ku-4. Ukubala okungakahleleki 1-7	Iingoma nemidunduzelo yeenomboro.	Ilanga li-1
	Qinisa imiqondo "yokunengi" kunye "nokumbalwa". Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-4.		
	Okuphathelene nokusikinyeka komzimba. Vumela abafundi Uku /u: Let the learners: - Gadangise umthlal wenomboro ku-1 emoyeni ngokusebenzisa imino yabo. - Abafundi bathinte iinhloko zabo kabili. - Lotjhisana/ bambane ngezandla nabafundi aba-4 abahlukeneko. - Bopha amehlo wabafundi begodu bavumele bathole iinomboro ku-1 ukufika ku ku-4 ngokuzwelela /ngokulandela umthlala wamakarada weenomboro amakghwakghwa.	Ithreyi/ibhoksi elinesanda Isede yamakarada weenomboro amakghwakghwa/aphathekako.	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi uku: - Gwala inomboro ku-1 esandeni - Thola izinto ezi-3 ezifanako. - Yeqe yeqa endaweni yinye amahlandla ama-2. (kabili) - Yakha amaphazeli aneentokana ezi-4 ukuya ngaphezulu .	Izinto Abafundi Amaphazeli weenquntu ezi-4	
1.11 **Imali**	• **Ukukhumbula begodu nokubona iinhlamvu zemali yeSewula Afrika** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Yenza abafundi balemuke iinlwana ezihlukeneko begodu neenthombe zeentjalo phezu kwehlamvu elinye nelinye lemali. - Imali ingasetjenziswa ehugwini yamaKghono wePilo lapho abafundi bangadlala isitolo. Ngokudlala abafundi bavezwa eenhlamvini ezihlukahlukeneko zemali	Iinhlamvu zemali, 5c, 10c, 20c, 50c, R1,00, R2,00 begodu ne R5,00 (Imali yokudlala namkha imali yamambala)	Ilanga li-1

Iveke ye- 18	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke).		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula ngomlomo imiraro yokuhlanganisa nokukhupha ngeensombululo ukufika ku-4** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 4. Ukubala uye phambili begodu uye emuva ukufika ku-4. Ukubala okungakahleleki 1-7 **Qinisa imiqondo "yokunengi" kunye "nokumbalwa".** Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-4. **Okuphathelene nokusikinyeka komzimba** Iimbonelo: 1. Utitjhere ubizela umfundi mu-1ngaphambili ngetlasini. Ubiza godu abanye abafundi aba-3. Bangaki abafundi utitjhere ababizileko sebaboke? 2. Utitjhere upaka izinto ezi-3 zokubala. Utitjhere ungeza ngenye godu. Zingaki izinto zokubala eziphezu kwetafula? 3. Abafundi bajama ngaphambili ngetlasini. Utitjhere ubawa umfundi oyedwa ukuthi ahlale phasi. Bangaki abafundi abajme ngaphambili kwetlasi kwanje? 4. UBusi unamapensela ama-4. Unikela UJastini amapensela ama-2. Mangaki amapensela uBusi asele nawo?	Iingoma nemidunduzelo yeenomboro. Abafundi Izinto zokubala Amapensela Ukusebenzisa iinsetjenziswa ezihlukeneko ukunikela umbono wokuthi angasetjenziswa njani amaqhinga ahlukeneko.	Ilanga li-1

Iveke ye- 18	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke).		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Ukuhlela begodu umadanisa izinto ezibuthelelweko ngokusebenzisa "kunengi kuna","kuncani** kuna" begodu "nokulingana na" ukufika enomborweni ku-4 **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Utitjhere unikela ilunga elinye nelinye lesiqhema inani elithileko lamakhrayoni. - Amalunga wesiqhema kufanele athole bona ngimuphi umfundi onamakhrayoni amanengi ukudlula abanye abafundi. - Ngimuphi umfundi onamakhrayoni ambalwa kunabanye abafundi? - Ngibaphi abafundi abanenani elilinganako lamakhrayoni? **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Hlela isede yamakarada weenomboro afaka hlangana inomboro ku-1 ukufika ku ku-5 ngendlela ehlelekileko.isib.  - Buza imibuzo efana nalo: Ngiliphi ikarada elinezinto/amaqatjhazi amanengi? - Ngiyiphi inomboro ekulu kunaku-2? njll.	Amakhrayoni Iqatjhazi begodu namakarada wamatshwayo weenomboro.	Ilanga li-1

Iveke ye- 18	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke).		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
2.1 **Amaphetheni weJiyomethri**	• **Ukukopulula begodu nokuzalisa/ ukuqedelela iphetheni onikelwe yona yeenhlamvu zemali.** **Kopulula iphetheni onikelwe yona.** - Utitjhere uhlela iphetheni ngokusebenzisa "imali yokudlala" isib. 5c, 5c, 5c, 10c, 10c,10c, 20c, 20c, 20c Vumela abafundi uku: - Kopulula amaphetheni ambadlwana enziwe ngutitjhere. **Zalisa / qedelela iphetheni onikelwe yona.** Vumela abafundi uku: - Zalisa / qedelela amaphetheni ambadlwana enziwe ngutitjhere.isib. o 5c, 5c, 10c, 10c,…… o 5c, 10c,…… o 10c, ,20c…….njll.	Imali yokudlala namkha imali yamambala (5c,10c, 20c)	Ilanga li-1

Iveke ye-19	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke).**		
linhloko	**Amanothi wokutlhadlhula**	**linsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Qinisa ilwazi elizuziweko okufaka hlangana iinomboro 1, 2, 3, na ku-4.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 4. Ukubala uye phambili begodu uye emuva ukufika ku-4. Ukubala okungakahleleki 1-7. **Qinisa imiqondo "yokunengi" kunye "nokumbalwa".** Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-4. **Okuphathelene nokusikinyeka komzimba** Utitjhere uphakamisa ikarad elinetshwayo lenomboro ku-3 begodu athi kubafundi. - Ngifuna inani elingaka labesana. - Uphakamisa inomboro yesi-2 athi, Ngifuna inani elingaka labentazana. - Bakha iinqhema za(aphakamise inomboro yesi-2). - Buyelela umsetjenzana ngamakiarada afaka hlangana inomboro 1-4.	lingoma nemidunduzeloyeenomboro Amakarada wamatshwayo weenomboro afaka hlangana inomboro yoku-1-4 Isib. **3**	llanga li-1
1.16 **limbalo zehloko**	**limbalo zehloko** Utitjhere uphakamisa ikarada elinenomboro ku-3 begodu abuze abafundi: - Ngiyiphi inomboro le ? - Ngiyiphi inomboro eza ngaphambi kwenomboro ku-3? - Ngiyiphi inomboro eza ngemva kwenomboro ku-3? - Buyelela ngeenomboro 1-4 - Ungangibonisa ikarada lesithombe elinenani elilingana nenani lamaqatjhazi asekaradeni leli?	Isede yeenthombe kunye namakarada wamaqatjhazi afaka hlangana inomboro yoku-1-4	

Iveke ye-19	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke).**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.16 **Iimbalo zehloko**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Utitjhere uwahla ngengido begodu kabuthaka ukujamisela inomboro. Abafundi kufanele bakhuphe imincamo yenani lelo bayitjengise utitjhere.isib. imincamo emi-4. - Vumela abafundi ukubeka umncamo 1,2,3, namkha mi-4 ngaphambi kwabo. - Bawa abafundi batjengise bona mingaki imincamo abanayo ngokumadanisa inani lemincamo yabo nenani elifana nelefletjhikarada isib.imincamo emi-4 namatshwayo weenomboro ama-4 - Bavumele bathole umfundi onenani elilinganako/elifanako lemincamo **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Utitjhere uphakamisela phezulu ikarada lamanani wamaqatjhazi ama-2 begodu abuze abafundi: - Mangaki amaqatjhazi aphezu kwalelikarada.? - Ngiyiphi inomboro ejanyelwe maqatjhazi la? - Ngiyiphi inomboro eza ngemva kwenomboro le? - Ukugwala inani lamaqatjhazi elifanako emaphepheni wabo.	Imincamo emi-4 umfundi ngamunye. Amafletjhikarada weenomboro 1,2,3 naku- 4 Amafletjhikarada anamaqatjhazi. 	Ilanga li-1

Iveke ye-19	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke).**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula ngomlomo imiraro yokuhlanganisa nokukhupha (indatjana zeembalo) ngeensombululo ukufika ku-4** **Okuphathelene nokusikinyeka komzimba** - Biza abafundi aba-3 beze ngaphambili.Babale - Biza mu-1 godu umfundi. 'Bangaki nasele baboke? Ku-3 naku-1 → 4 (kuthathu nakunye kwenza ku-4) - Busela abafundi aba-3 emva emadeni. Bangaki abafundi abasele balapho kwanje? How many learners are there now? Ku-4 ukhupha ku-3 → 1 Hlukanisa abafundi ngeenqhema. Buza imibuzo efana: - Zingaki iimpumulo ozibonako esiqhemeni sakho? - Mingaki imilomo? - Mingaki imizimba? - Hlangana nabafundi ababili, Mangaki amehlo abanawo? - Hlangana nabafundi ababili, Mingaki imilenze abanayo? **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Iimbonelo: 1. Ubaba kaLindiwe unekoloyi. Inamavilo amangaki ikoloyi kababa kaLindiwe? 2. Nangabe li-1 lamavilo liparalele begodu likhitjhiwe ekoloyini. Mangaki amavilo aseleko? 3. Isikhukhukazi sinamadzinyani ama-4. Mabili wamadzinyani ayalahleka. Mangaki amadzinyani esasele nesikhukhukazi? 4. Isikhukhukazi sithola amadzinyani amabili abekalahlekile. Sele amangaki amadzinyani esele sinawo kwanje?	Izinto zokubala. Sebenzisa iinsiza ezihlukeneko ukunikela imibono yokusetjenziswa kwamaqhinga ahlukeneko. Izinto zokubala.	Ilanga li-1

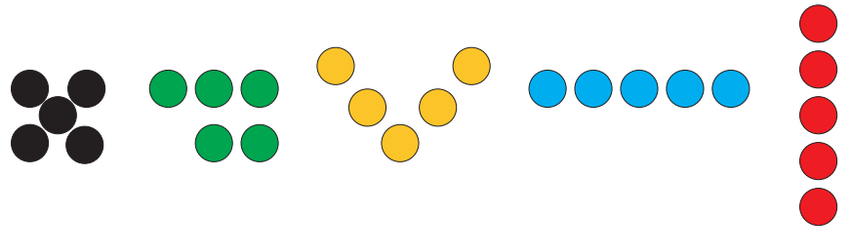
Iveke ye-19	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke).**		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Hlela begodu umadanisa izinto ezibuthelelweko ngokusebenzisa "kunengi kuna","kuncani kuna" begodu "nokulingana na" ukufika enomborweni yesi-4** **Okuphathelene nokusikinyeka komzimba.** - Utitjhere ubeka izinto ezihlukeneko phezu kwetafula isibonelo,amakhrayoni ama-2, amabhlogo afanako ama-4, amabhlege ama-3, iincwadi ezi-2. Vumela abafundi uku: - Bala inani lamakhrayoni begodu nelamabhlege. Ngabe kunamakhrayoni amanengi namkha amabhlege amanengi? - Bala inani lamabhlogo nenani leencwadi. Ngabe kunamabhlogo ambadlwana kuneencwadi? - Bala iincwadi begodu namakhrayoni. Ngabe kunenani elilinganako lezinto namkha awa?	Amakhrayoni, amabhlogo, amabhlege, iincwadi.	1 day
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Vumela abafundi ukuhlala phezu komada begodu nikela umfundi ngamunye inani elithileko lezinto zokubala. - Abafundi kufanele babe nezinto zokubala ezihlukeneko. - Vumela abafundi ukubeka izinto zokubala ngaphambi kwabo.Utitjhere ubuza abafundi bona: o Ngubani onezinto zokubala ezinengi? o Ngubani onezinto zokubala ezimbalwa ? o Ngibaphi abafundi abanezinto zokubala ezilinganako?	Izinto zokubala. Utitjhera unikela umfundi ngamunye izinto zokubala ukufika ke-4.	
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula,ukubona begodu nokunikela igama lezinto zobujamo obusobabili ngeklasini kunye nesithombeni.** • **Yenza begodu uzalise yakho iphazeli yeentokana ezi-4** (Hlanganisa nobuKghwari bokuBona.) Vumela abafundi uku: - Ukugwala isithombe phezu kwephepha le-A4. - Utitjhere ugwala imida emva kwemigwalo yabafundi. - Umfundi usika isithombe sakhe phezu kwemida enikelweko. - Umfundi uzalisa /wakha yakhe iphazeli.	Imigwalo yabafundi 	1 day

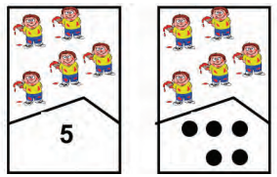
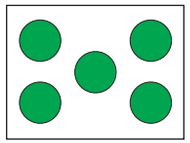
Iveke ye-19	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke).		
Iinhloko	**Amanothi wokutlhadlhula**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
4.1 **Isikhathi**	• **Ukuthuthukiswa ilemuko lokwazi okwenzeka hlangana nesikhathi sokudla kwantambama nesikhathi sokulala.** (Hlanganisa neLwazi lokuThoma leenhlokwana zamaKghono wePilo.) Vumelani abafundi uku: - Khuluma ngalokho abakwenza emva kokudla kwantambama. - Khuluma ngalokho abakwenza emakhaya ngemva kwesikhathi sokudla kwantambama. Utitjhere ubuza abafundi: - Niza esikolweni ekuseni namkha ntambama?” - Nangabe uPeter uza esikolweni ngemva kokulila kwesimbi, ingabe uPeter uladelwe namkha ufike ngesikhathi? - Likuphi ilanga ebusuku?	Iinthombe ezitjengisa lokho okwenzeka ukusukela esikhathini sokudla kwantambama nesikhathi sokulala.  	1 day
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Abafundi bagwala isithombe ukutjengisa esinye nesiny isehlakalo sangemva kwamadina. - Nikela amaphazeli atjengisa ukulamana kwezehlakalo begodu/namkha nemisetjenzana.	Iphepha namakhrayoni.	

Iveke 20	Sebenzisa iimveke ezili 20 ukutjheja ubuthakathaka bomqondo begodu / nofana iinqabi zokufunda ezitholakeleko	
Okumumethweko	**Isihloko**	**Isilinganiso sokuhlola**
Iinomboro, ama-Opharetjhiuni Nobudlelwana	**1.1 Ukubala izinto**	Linganisa begodu ubale ngokungakahleleki kufika ku li- 7 (lingoma zeenomboro nemidunduzelo ezifaka hlangana ukuthuthukisa umqondo weenomboro)
		Bala uye emuva naphambili (1-4)
		Ukuzwisisa umqondo wokuthi “okunengi nokuyidlanzana” (ngokuwahla)
		Ukukhumbula iinomboro ebujamweni obujayelekileko isib.inomboro yendlu, irejistara yama adresi
		Ukubona iinthombe zeenomboro namakarada wamaqatjhazi
		Ukwazi amatshwayo weenomboro 1, 2, 3 ,4
		Ukukhumbula amabizo weenomboro kubili, kuthathu , no kune.
		Ukuzwisisa kunye nakunye okukhambelanako (Itjhadi yomrhelebhi ngesikhathi seenqabuli)
		Ukuhlukanisa phakathi kwaka kunengi , kuncani nokuthi kuyalingana,okunengi nokumbalwa ukufika ku ku 4
		Ukukhumbula iinhlavu ezihlukahlukeneko zemali ye Sewula Afrika
	1.6 Ukurarulula imiraro	Ukusebenzisa izinto eziphathekako Ukuhlathulula ukucabanga kwakhe ngamagama begodu nangokugwala nofana izinto eziphathekako .
	1.7 / 1.13 Ukuhlanganisa nokususa/ukukhupha	Ukusombulula imiraro yokuhlanganisa nokukhupha ngomlomo ukufika ku ku - 4
Amaphetheni namaFanktjhini	**2.1 Amaphetheni weJiyomethri**	Ukukopulula , ukwengezelela nokutlama amaphetheni wakho (izinto, amajamo neenhlavu).

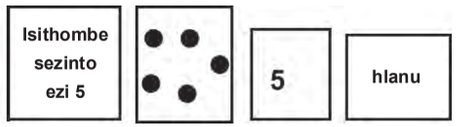
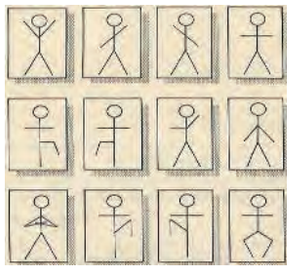
Iveke 20	Sebenzisa iimveke ezili 20 ukutjheja ubuthakathaka bomqondo begodu / nofana iinqabi zokufunda ezitholakeleko	
Okumumethweko	**Isihloko**	**Isilinganiso sokuhlola**
Isikhala noBujamo (Jiyomethri)	**3.1 Ubujamo, ukuzijayeza nokubukela**	Ukuzwisisa ubujamo bezinto ezimbili nofana ngaphezulu lokha nawuzihlobanisa nomfundi Phezu kwe, ngaphasi kwe
	3.2 Ubujamo obubusobubili (2-D)	Ukwakha okungaseani iphazeli yeentokana ezili-12.
		Ukutjengisa ikghono lokuhlukanisa hlangana nezinto “ezinqotjhiweko begodu nezinto ezingakanqotjhwa.”
		Ukukhumbula, ukubona nokutjho uncantathu.
		Ukuzwisisa ukungatkjhuguluki kobujamo bakancantathu (ukubulunga ubujamo)
	3.3 Izinto ezibusobuntathu (3-D)	Ukumadanisa bonyana ngiliphi lamabuthelelo amabili wezinto anikelweko elide, elidanyana, elifitjhani/elifitjhani khulu
		Ukuhlela izinto ngama sayizi/ ubukhulu – okude
		Imibala – (obomvu, osarulani, ohlaza sasibhakabhakabegodu nohlaza satjani)
		Amajamo
		Ukuhlola ngamabhlogo wokwakha.
	3.4 Isimethri	Ukubona umuda wesimethri Kuye nebhodulukweni
		Ukukghona ukuvundla umuda ophakathi
Ukumeda	**4.1 Isikhathi**	Ukuzwisisa amalanga weveke, iinkathi zonyaka begodu netjhadi lobijamo bezulu(lingoma nemidunduzelo – buyelela uhlole godu.
		Ukwazi ilanga lakhe lamabeletho
	4.2 Ubude	Ukuhlukanisa hlangana kokude khulu, okufitjhani khulu, okudanyana, okufitjhazana (itjhadi lobude).
Ukuphatha Idatha	**5.1 Ukubuthelela nokuhlela izinto**	Kghona ukubuthelela, ukuhlela ngamananeko ukugwala, ukufunda nokujamisela, (tsenga) izinto ukuya ngakhunye okuphawulekako .
	5.2 Ukujamisela ibuthelelo lezinto ezihleliweko	
	5.3 Ukucocisana nokuletha umbiko ngezinto ezisebuthelelweni elihleliweko.	

ITHEMU 3 IIMBALO IGREYDI R			
Iveke 21	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Yethula ihlathululo yenomboro ku-5** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 5. Ukubala uye phambili begodu uye emuva ukufika ku-5. Ukubala okungakahleleki 1-10. **Ukuqinisa iinomboro sikhundla:** Utitjhere upaka izinto ezintathu ngereyi. Ukhomba into ngayinye lokha nakayibalako *kunye, kubili kuthathu.* **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-5. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu.	Iingoma zeenomboro nemidunduzelo Imidunduzelo neengoma zokubala isib. " limfene ezincancani ezihlanu zeqa yeqa phezu kombhede" Izinto ezi -3	**Ilanga li-1**
	Okuphathelene nokusikinyeka komzimba Khuthaza abafundi ukuzitholela inomboro ku- 5 ngoku: - Ukuwahla izandla zabo amahlandla ama 5. - Ukuthola bonyana bangaki abafundi ngetlasini abasele baneminyaka emi 5.		

Iveke 21	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.16 **Iimbalo zehloko**	**Iimbalo zehloko** - Utitjhere uwahla izandla zakhe ngegido nakabuthaka ukujamiselela inomboro isib. 5. Abafundi kufanele bakhuphe izinto zokubala ezilinganako (ezi 5) bamutjengise. - Abafundi bapakela izinto zokubala ezi 5 ereyini begodu bazibale. - Utirjhere uyabuza: - Ngiyiphi inomboro eza phambili kwenomboro yesi 5? - Ngiyiphi inomboro eza emva ko-4 njll? - Lokha nawunamahabhula ama 5 begodu ukhupha mabili. Mangaki amahabhula aseleko? - Ngibonisa imino emi 5. - Zingaki iinzwani onazo enyaweni li-1?	Izinto zokubala ngesimumathini	**Ilanga li-1**
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Abafundi bathuthukisa umqondo wenomboro ngoku: - Ukwenza inomboro yku- 5 ngehlama yokudlala. - Ukupaka amakari ama -5. - Ukubala izinto nokuzihlanganisa nezinto zokubala. - Ukuthuthukisa ilemuko lokutjhejwa kwenomboro ngokuvumela abafundi : - Pake izinto zokubala ezihlanu nofana nanyana ngiziphi izinto ngeendlela ezihlukeneko isib.  Lokha nakubalwako, inani lezinto alithintwa yisayizi yazo, namkha indawo namkha ngabe ngezomhlobo ofanako. Isibonelo: - Hlela iinkunupe ezi-5, amapensela ama-5, amahula wupsi ama-4, abafundi aba-5 njll. - Zibale ngendlela ehlukahlukeneko ehlelekileko Isibonelo: Zibale zisabalele, zitjhidelene, zirhemile nofana zipakiwe.	Ibumba nofana ihlama yokudlala Amakari	

Iveke 21	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Ukuthuthukisa umkhumbulo begodu ukhuthaze abafundi ukubamba ngehloko inomboro yasekhaya, inomboro yesiphande nenomboro yomrhala.** Dlala imidlalo enjenge: - Utitjhere utjho inomboro yendlu, inomboro yesiphande nofana inomboro yomrhala yomfundi. Inomboro nofana iisiphande somfundi nasibizwako kufuze umfundi loyo aphendule.. - Lokha nakazalisa ijejista yokubakhona nofana yokungabikhona komfundi esikoleni utitjhere angabuza imibuzo enjengokuthi: “umfundi wenomboror yomrhala ethi 435-6256 ukhona namhlanje? “ umfundi ohlala eMandela Drive 123 ukhona namhlanje? - Abafundi basebenzisa itshwayo lenomboro amafletjhi karada ukupaka inomboro yendlu nofana inomboro yomrhala ngokulandelana nalokha kungaphumeleli. - Iinkulumo zokulingisa emrhaleni wokudlalisa. Abafundi badosela omunye oqakathekile umrhala. . Hlanganisa nobuKghwari boKwenza (umdlalo) emaKghonweni wePilo	Inomboro yomrhala kufanele kube yinomboro yokuthintana yombelethi nofana yomtlhogomeli begodu kungaba yinomboro yakamaliledinini. Amathswayo weenomboro, amafletjhi karada nofana amatshwayo weenomboro amakhulu enziwe ngekhadibhodi. Umrhala wokudlalisa	**Ilanga li 1**
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Utitjhere ubonisa abafundi: - Imihlobo ehlukeneko yeenrhatjhi lapho angafumana khona inomboro ku- 5 isib. Amakarada wamalanga wamabeletho, amaphephandaba, amamagazini, amaflaya njll. - Ifletjhi karada elinamaqatjhazi ama 5 nefletjhi karada elineenthombe ezi 5. - Vumela abafundi bonyana bahlobanise amafletjhi karada weenthombe namafletjhi karada wamaqatjhazi begodu nenani elifafanako lezinto zokubala nofana izinto. - Yenza amaphazele weenomboro ezifaka hlangana inomboro ku- 5. Isib. 	Amakarada wamalanga wamabeletho nobu amaphephandaba, amamagazini amafletjhi karada anamaqatjhazi ama 5. Amafletjhi karada aneenthombe ezi 5. Izinto Izinto zokubala **Isithombe sezinto ezi 5** 	

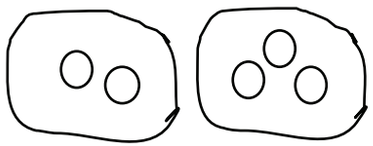
Iveke 21	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukwazi itshwayo lenomboro nokukhumbula ibizo lenomboro efaka hlangana inomboro ku- 5.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 5. Ukubala uye phambili begodu uye emuva ukufika ku-5. Ukubala okungakahleleki 1-10. **Okuphathelene nokusikinyeka komzimba** - Vumela itlasi loke bonyana bahlale benze indulungu. - Nombora abafundi ukuya ngephetheni. 1, 2, 3, 4, 5. 1, 2, 3, 4, 5. 1, 2, 3, 4, 5. - Buza imibuzo enjenga, “ngubani olandelako ozokuba sebujamweni besi-5? Ngubani ozokuba sebujamweni besi-4 obulandelako? - Uwurarulule njani umraro? - (Abafundi bararulula umraro ngendlela ephathekako ukwenza ibonelo phambili lenomboro elandelako ngokubala baye phambili)	Iingoma zenomboro nemidunduzelo	**Ilanga li 1**
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Sebenzisa amakarada weenomboro amakghwakghwa afaka hlangana iinomboro yo-1 ukufika ku-5. - Abafundi bavala amehlo wabo begodu bezwe inomboro yesihlanu hlangana namanye amatshwayo weenomboro basebenzisa imino yabo. Nikela umfundi ngamunye izinto zokubala ezi 5 neenkopi zeplastiki ezimbili nofana neemumathi zamaqanda ezimbili. - Buza abafundi bonyana: “ziindlela ezihlukileko ezingaki ongahlela ngazo izinto zokubala ezihlanu ngemabhaskedini amabili?  nofana njll.	Amakarada weenomboro enziwe ngomatheriyeli ongwarako onenomboro ku- 5.	

Iveke 21	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi uku: - Bona ifletjhi karada elineenthombe ezi -5. - Bona ifletjhi karada elinamaqatjhazi ama -5. - Bona itshwayo lenomboro ku- 5 likhangiswe nanyana kukuphi ngetlasini. - Bona itshwayo lenomboro efletjhi karadeni. - Khumbula ibozo lenomboro efletjhi karadeni. - Hlobanisa inani lezinto zokubala negama lenomborobegodu netshwayo lenomboro ngokupakela into yokubala esithombeni ngasinye nasekaradeni leqatjhazi.	Amafletjhi karada aneenthombe, amaqatjhazi, itshwayo lenomboro nebizo lenomboro Izinto zokubala ezi 5 	**Ilanga li 1**
3.4 **Isimethri**	• **Ukuqinisa umuda wesimethri kuwe ngokwenza imisikinyeko ekhuthaza ukweqa umuda ophakathi wangaphakathi.** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi uku: - Dlala umdlalo wokulandela umrholi lapho abafundi bakopa khona ubujamo etjhadini. - Dlala “umdlalo wokulandela umrholi” lapho utitjhere atjengisa khona ubujamo nabafundi bamkopela khona. (faka izenzo lapho abafundi beqa umuda ophakathi wangaphakathi isib. Thinta idolo langakwesokudla ngesandla sangesinceleni) - Dlala “ umdlalo wokulandela umrholi” lapho abafundi batjengisa khona ubujamo abaseleko bayamkopela. - Utitjhere utjengisa abafundi “ukweqa uphakamise izandla neenyawo ngesikhathi sinye” begodu abafundi bakhuthazwa bonyana benze umsikinyeko ofanako. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi uku: - Beka imigodlalana yeembhontjisi ngesinceleni, ngesidleni, ngaphambili nasemuva komzimba wakhe. - Sebenzisa isandla sakho sangesinceleni ukubeka umgodlana weembhontjisi ngehlangothini lomzimba wakhe langesidleni.. - Ukuzilula ukweqa umuda ophakathi wangaphakathi. - Buyelela wenze lokhu ngesandla sangesidleni. Hlanganisa umsebenzi lo nomsetjenzana wesiFundo Sokuzithabulula umzimba esifundwenu samaKghono wePilo		Ilanga li 1 Ngemva kwalokho ngendlela eragako bgesikhathi sokudlala okutjhaphulukileko nemisetjezana ethuthukisa ukukhula komzimba.

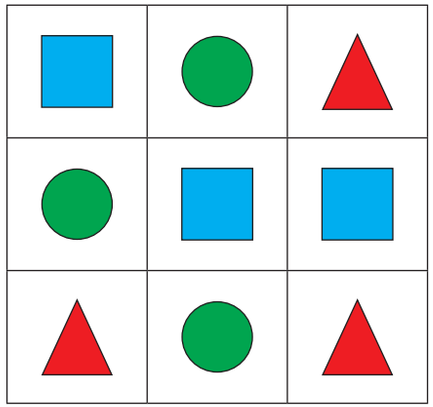
Iveke 21	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
4.2 **Ubude**	• **Ukulinganisa nokumeda ubude bezinto ezihlukeneko usebenzisa iinyawo, izandla, isiquntu sentambo, isigojwana njll.** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi uku: - Madanisa ubude beenyawo nezandla zabo. - Abafundi balinganisa bonyana ngiyiphi into ede begodu ngiyiphi efitjhani ngokuzimeda ngeenyawo nofana ngezandla zabo isib. Itafula nofana ingcenye ehlephukileko yethumbu kusuka ekhaya. - Linganisa bona ngiyiphi into ede khulu nofana efitjhani khulu? Isib. Indledlana yenyawo nofana ireyi leentina. - Vumela abafundi bonyana bafunisele bonya ngiyphi ezakuba yidanyana isib. Itlasi nofana itlasi lesitafu yokusebenzela/yokuphumula. - Buza imibuzo enjengokuthi: “Ngiyiphi edenyana / ede khulu, ipensela nofana isiquntu sentambo?”njll.	Izinto ezinobude obuhlukeneko ezingamedwa ngesandla nofana inyawo isib. Irula, itafula, umnyango, ireyi leentina, ipala linye lamapala webhola okufakwa kilo amagondelo webholo, itlasi, ibulungelo leencwadi njll.	Ilanga li-1

Iveke 22	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elifunyenwe elifaka hlangana inomboro ku- 5.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 5. Ukubala uye phambili begodu uye emuva ukufika ku-5. Ukubala okungakahleleki 1-10. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-5. Buza umbuzo wokobana: "Ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu.?" **Okuphathelene nokusikinyeka komzimba** Khuthaza abafundi ukufunyana inomboro yesi -5 ngoku:. - Tjengisa imino emi -5 emoyeni. - Thola izinto ezi -5 ezibomvu, hlaza kwesibhakabhaka, sarulana, lihlaza kotjani. - Thola izinto ezi -5 ezifana nendulungu, isikwere, uncantathu. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi ukuthuthukisa umqondo wenomboro ngoku: - Thatha iincwadi ezi-5 ehugwaneni yeencwadi. - Ukwakha umbhotjhongo ngamakhyubhu ama -5 angenelelanako nofana amabhlogo wokwakha.	Iingoma zeenomboro nemidunduzelo Isib. Imidunduzelo neengoma ezibalako isib. "1,2,3,4,5 "ngakhe ngabamba ifesi ephilako" Izinto zokubala Iincwadi Amabhlogo wokwakha nofana amakhyubhu angenelelanako	**Ilanga li 1**

Iveke 22	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula imiraro yamagama ngomlomo(iimbalo zendatjana) begodu uhlathulule iinsombululo zakho zemiraroi ezifaka hlangana inomboro ku- 5.** **Okuphathelene nokusikinyeka komzimba** - Bizela abafundi aba -5 ngaphambili. Aba iintulo ezi -5 ngokulinganako hlangana kwabo bobahlanu. - Susa isitulo sinye. Kwanje hlukanisa iintulo hlangana kwabahlanu. Umfundi munye uzotlhoga isitulo. - Thoma ku -5. Bala uye emuva. Thoma ku ku 3. Bala ufike ku ku-5. Thoma ku ku -1. Bala ufike ku ku-4. njll. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** **limbonelo**: 1. Tjengisa umuno mu -1 ngesandlelni sinye nemino emi-4 ngakwesinye isandla. Mingaki imino sele iyoke? 2. USama unamakuke ama-4. UMpho umnikela li -1 godu. USama unamakuke amangaki nasele awoke. 3. UTomasi unamatje ama -5 begodu unikela uMenzi woma-5 amatje. UMia unamatje amangaki? 4. UJan unamamabula ama -5 begodu kulahleka ma- 2. Usele namamabula amangaki? 5. Ukatsu munye uneendlebe embili. Abokatsu ababili bazokuba neendlebe ezingaki? 6. Ingoma, “ amabhodlela amahlanu alenga ebodweni, agcina ngelize” (bonisa bonyana amabhodlela aba mancani)	Izinto zokubala Amamabula Ingoma	Ilanga li 1

Iveke 22	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Madanisa bonyana ngiliphi lamabuthelelo amabili onikelwe wona elinengi kuna, ncani kuna, lingana na, ukufika enomborweni ku- 5.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 5. Ukubala uye phambili begodu uye emuva ukufika ku-5. Ukubala okungakahleleki 1-10. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-5. Buza umbuzo wokobana: "Ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu.?" **Okuphathelene nokusikinyeka komzimba** - Utitjhere ubeka izinto ezihlukeneko etafuleni isibonelo amakopi ama -2, amabhlogo afanako ama -5, amakorokoti ama -4, iincwadi ezi -2. Vumela abafundi bonyana ba: - Bale inani lamakopi namakorokoti. Kunamakopi amanengi nofana amakorikoti amanengi? - Bala inani lamabhlogo neencwadi. Kunamabhlogo ambadlwana kuneencwadi? Kunamabhlogo amanengi ukudlula iincwadi? - Bala iincwadi namakopi. Kunezinto ezilinganako ngenani nofana awa?	Iingoma zeenomboro nemidunduzelo Amakopi ama 2, amabhlogo afanako ama 5, amakorokoti ama 4, iincwadi ezi 2	Ilanga li 1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Abafundi bahlala phezu komada benze "iindlwana zeenyoni" ezimbili ngevolo. - Utitjhere unikela iinyalelo isib. Abafundi babeka izinto zokubala ezi -2 ngendlwaneni yinye yenyoni nazi -3 ngendlwaneni enye yenyoni. Ngiyiphi indlwana yenyoni enazinengi? Ngiyiphi enezimbadlwana? - Utitjhere ubizela abafundi aba -5 phambili. Ufaka inomboro yemincamo engafani esandleni ngasinye somfundi. - Ngisiphi isandla esineminengi ngakiso? - Ngisiphi esinemincani ngakiso? **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere ubabonisa amakarada amabili anenani elihlukeneko zamaqatjhazi neenthombe kiwo. - Vumela abafundi ukumadanisa amakarada aneenthombe namaqatjhazi begodu babone umqondo "wokunengi kuna", okuncani/okumbadlwana kuna nokulingana na.	Umfundi ngamunye uthola iingcenye ezimbili zevolo. Izinto zokubala ezisi 6 umfundi ngamunye.  Imincamo Amakarada weenthombe namakarada wamaqatjhazi afaka hlangana iinomboro ukusuka ku ku-1 ukufika ku ku- 5.	

Iveke 22	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
2.1 **Amaphetheni weJiyomethri**	• **Ukuqinisekisa ukukopulula iphetheni enikelweko** **Okuphathelene nokusikinyeka komzimba** - Ukusebenza ngeenqhema begodu nokukopulula iphetheni onikelwe yona. isib. mfundi, situlo, mfundi, situlo. - Abafundi ababili, isitulo sinye, abafundi ababili, isitulo sinye. - Gida ngenyawo linye, gida ngelinye inyawo, yeqela phambili, yeqela emva. - Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Utitjhere wenza iphetheni asebenzisa izinto zokubala neemvalo zamabhodlela isib. Into yokubala, into yokubala, isivalo sebhodlela, into yokubala, into yokubala, isivalo sebhodlela. Abafundi bakopa iphetheni. - Khamba kabuthaka, kabuthaka, msinyana, msinyana. (utitjhere ukhuluma akhamba). Abafundi bakopa iphetheni. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Hlukanisa abafundi ngeenqhema ezihlanu. Nikela isiqhema ngasinye iinthombe ukwenza amaphetheni ngazo. - Abafundi bakha iphetheni yesithombe sabo basebenzisa iinthombe abazinikelweko isib. o Ilamune. I-abhula, i-abhula, ilamune. o Iviyaviyani, iviyaviyani, inyosi, inyosi. Umsetjenzana lo ungahlanganiswa nobuKghwari ObuBonakalako emaKghonweni wePilo.	Abafundi Iintulo Izinto zokubala Iimvalo zamabhodlela Iinthombe nanyana ngiziphi ezikhona isib. Iinkhangiso Dublikheyitha/yenza godu iinthombe ukuqinisekisa bonyana unazinengi.	Ilanga li 1

Iveke 22	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa eziphakanyisiweko**	**Isilinganiso sesikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula, ubone begodu utjho ubujamo bakasobabili (2-D) etlasini neenthombeni** • **Ukuqinisa ilwazi elitholwe ngeveke yesi -6 efaka hlangana isikwere.** Hlanganisa nesiFundo sokuThabulula umzimba esifunweni samaKghono WePilo. **Okuphathelene nokusikinyeka komzimba** - Gwala isikwere etatawini lokudlalela uvumele abafundi beqayeqe magega nesikwere. Vumela abafundi batjho bonyana: "ngeqayeqa magega nesikwere – ihlangothi elilodwa, amahlangothi amabili, amahlangothi amathathu, amahlangothi amane – amahlangothi woke ayafana" - Vumela abafundi balale bahlabane ngeenhloko neenzwani etjanini/phasi/emadeni ukwenza isikwere esikhulu. - Vumela iinqhema zabafundi ukulala phasi emadeni benze isikwere esincani. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - **Umdlalo:** utitjhere ugwala igridi etatawini lokudlalela. - Beka amajamo wamambala. Isib. Ubujamo beLogi, nofana iinthombe zobujamo ebhlogweni ngayinye. - Utitjhere ubiza ubujamo. - Abafundi baphosela umgodlana weembhontjisi ebhlogweni elikhambisana nobujamo obubiziweko. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Abafundi kufuze bahlukanise hlangana **namasayizi** ohlukeneko **nemibala** yeenkwere utitjhere azilungisileko. Vumela abafundi bonyana ba: - Bona iinkwere ngokuya ngobukhulu obuhlukeneko ngokutjho bonyana ngiziphi iinkwere ezikulu khulu, ngiziphi ezincani khulu begodu ngizphi iinkwere ezinobukhulu obulingeneko. - Bona imibala yeenkwere ezihlukeneko. **Hlela izinto ngokuya ngobujamo, isayizi nombala.** - Hlela izinto ezihlukeneko ngokuya ngombala nangobujamo.	Isikwere esiseflurwini/phasi  Umgodlana weembhontjisi Iinkwere ezi 2 ezikulu zamakhadbhoksi sinye esilihlaza kwesibhakbhaka nasinye esihlaza kotjani. Iinkwere ezi 2 ezipheze zaba zincani sinye esilihlaza kwesibhakabhaka nasinye eslihlaza kotjani (okulingeneko) Iinkwere ezi 2 zamakhadbhoksi amancani khulu, linye elilihlaza kwesibhakabhaka nenye elihlaza satjani.	Ilanga li 1

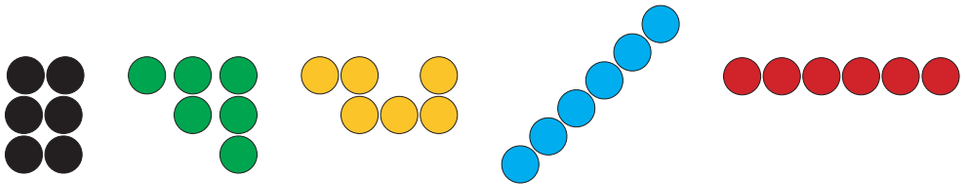
Iveke 23	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elitholiweko elifaka hlangana iinomboro ku-1 ukuya kuku-5** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 5. Ukubala uye phambili begodu uye emuva ukufika ku-5. Ukubala okungakahleleki 1-10. **Ukuqinisa umqondo woku "nengi nokuncani".** Wahla izandla amahlandla amanengi. …… JAMA Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-5. Buza umbuzo wokobana: "Ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu?" **Okuphathelene nokusikinyeka komzimba** Asidlale umdlalo: - Utitjhere udlala isililiswa isib. Isigubhu. - Abafundi bayakhambakhamba. - Lokha isigubhu nasilisa ukulila, utitjhere ubiza inomboro ehlangana kwaku 1 naku 5. - Abafundi bazihlela ngeenqhema ezincani isib. Utitjhere ubiza inomboro yesi -3 begodu abafundi bazihlela ngeenqhema zanga -3. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Utitjhere ubeka izinto ngewobhu phezu kwetafula. Vumela abafundi ukulinganisa bonyana zizinto ezingaki ezisewobhini. - Zibale nawuqeda.	Iingoma zeenomboro nemidunduzelo Isigubhu	Ilanga li 1 khetha imisetjenzana embadlwana kuphela

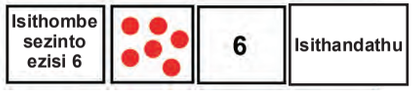
Iveke 23	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.6 **Amaqhinga wokurarulula imiraro**	**Asidlale umdlalo:** Utitjhere wakha ilere yenomboro phasi nofana ehlabathini. Inomboro eselerini yenomboro ijamele inomboro yendlu umfundi ahlala kiyo. Utitjhere ukhetha abafundi asebenzisa umdunduzelo wokubala begodu anikela iinyalelo ezinjenge: - Ngaso soke isikhathi jama phezu kwelize nofana uthome elizeni. Yitjho bonyana ilize litjho bonyana “akunalitho” nokuthi ukubala kuhle kuhle kuthoma ku ku 1. - Ngaso soke isikhathi bala ukhambakhamba. - Utitjhere uthi ebafundini. “Usendlini yenomboro 2, ngimuphi umuzi oza emva kwenomboro yesi 2? - Iinyalelo eziragela phambili kungaba: “dlulela endlini yenomboro yesi 3. Buyela emzini wenomboro yesi 2. Dlula uye phambili emzini wenomboro yesi 4.” - Utitjhere uthi:”ngisendlini yenomboro yesi 3, ngiyiphi indlu umuzi eza ngemva kwakwami?” - Iya emzini wenomboro yesi 4. Khamba uye phambili ngenomboro yi 1. Khamba iinomboro ezi 2 uye emuva. - Jama hlangana nendlu yenomboro yesi 3 neyesi 5.	0 | 1 | 2 | 3 | 4 | 5 Umdunduzelo wokubala 1, 2, 3, 4, 5, Ngikhe ngabamba ifesi ephilako 6, 7, 8, 9, 10 Begodu ngayilisa yakhamba godu	
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro.**	• **Sebenzisa inomboro ku- 5 ebujameni obujayelekile** Ukuze uthuthukise ukukhumbula, khuthaza abafundi uku: - Funda ngehloko inomboro yomrhala yababelethi babo. - Funda ngehloko iimphande zemakhabo. - Inomboro yomrhala/ umaliledinini kufanele bonyana ibuyelelwe ngesikhathi sokulawula irejista yangamalanga.	Inomboro yomrhala yakamma nofana yakababa nesiphande sekhaya	Ilanga li 1
3.2 **Izinto ezibusontathu (3-D)**	• **Ukwakha izinto zobujamo obubusontathu ngokusebenzisa umatheriyali ophathekako** - Abafundi abazakhele ukususela esibonelweni sakatitjhere. Unikela iinlayelo ezilandelako. - Yakha umbhotjhongo onokuphakama okulingana nowami. - Yakha umbhotjhongo ongaphasi kowami (omfitjhazana) kunowami. - Yakha umbhotjhongo ophakama phakamileko (omudanyana) kunowami. - Vumela abafundi ukwakha yabo imakhiwo ngokukopela isibonelo esinikelweko.	Amabhlogo wokwakha/amabhlogo weLego Nanyana ngisiphi isisetjenziswa sokwakha	

Iveke 23	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	**Landela ikombatjhuba ukuzikhambisa nofa ukuzibeka ebujameni obuthile (ikombatjhuba)** • **Thuthukisa umqondo wekombatjhuba ngokwethula imiqondo yomibili yoku "phambili begodu nemuva"** **Okuphathelene nokusikinyeka komzimba** - Njengesingeniso, qinisa ilwazi elifunyenwe evekeni yobu- 8.		Ilanga li 1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Gwala indulungu ekulu, uncantathu nofana iskwere esiquntwini sephepha usibeke phasi/ emadeni. - Vumela abafundi bonyana ba: - Tjhove ikoloyana yokudlalisa magega nemida begodu uvumele umfundi atjho bonyana ikoloyi ikhambeka iya ngakiliphi itjhuba (phambili nemuva, esinceleni nangesidlelni usebenzisa umkhono wakho ukwenza itshwayo langesinceleni nangesidleni)	Ubujamo obukhulu obugwalwe esiquntwini sephepha. Ikoloyi yokudlalisa	
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Vumela abafundi ukulemuka umqondo waphambili/emuva ngokukhomba ikombatjhuba eenthombeni isib. Ikombatjhuba ekhanjwa yikoloyi, ikombatjhuba ekhanjwa mumuntu.	Iinthombe ezibonisa ngokukhanyako ikombatjhuba. Isib.ikombatjhuba ekhanjwa yikoloyi, ikombatjhuba ekhanjwa mumuntu.	

Iveke 23	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
4.2 Ubude	**Umadanise ahlele izinto eziphathekako asebenzisa ilwazimagama ukuhlathulula ubude** • **Ukulinganisa ubude bezinto ezihlukeneko** **Okuphathelene nokusikinyeka komzimba** - Abafundi bazihlela ngokwabo ukusuka komfitjhani khulu ukuya komude khulu. Mamadanisa ubude babo nobude babangani babo. - Badlala umdlalo othi "landela umrholi" omude khulu wenza umsikinyeko lokha abanye absemUva kwakhe bamlingisela. Jikisa ireyi loke ukwenzela bona omfitjhani khulu abe mrholi kwanje. - Vumela abafundi ukumadanisa izandla neenyawo zabo ukubona bonyana ngezakabani ezide khulu/ezifitjhani khulu. Linganisa begodu umede: - Abafundi balinganisa bonyana ngiyiphi into ede begodu ngiyiphi efitjhani. Learners estimate which object is long and which one is short e.g. the length of the table or the piece of string. - Linganisa bonyana ngiyiphi into ede khulu nofana efitjhani khulu isib. Ipensela nofana ikhrayoni yamafutha. - Vumela abafundi bafunisele bonyana ngiziphi izinto ezingaba zidenyana isib. Amathunjana wokusela ama-2 alaliswe alandelana nofana iindrajana zokubamba imali/amaphepha ezilaliswe zalandelana. - Buza umbuzo onjengokuthi: "Ngiyiphi edenyana/ede khulu, ipensela nofana isiquntu sentambo? Njll. - Ngisiphi isitulo esikude khulu kunedeski yakatitjhere? - Zingaki iimpensela ezingalingana ngehlangothini elide ledeski yakatitjhere? - Uthatha amagadango amangaki ukufika emnyango? - Mangaki amabhoksi womlilo, azaliswe ngehlabathi, azazalisa ibhoksi leli? - Zingaki iinkopi zamaqanda ezizele amanzi ezingazalisa irhalasi leli? - Naba abafundi abane neentulo ezine. - Ziintulo ezinengi kangangani esizitlhogako?	Izinto ezinobude obuhlukeneko njenga: Amapensela, amakhrayoni wamafutha, iinquntu zentambo (yinye yakhona etshophekileko) itafula, iincwadi, amathunjana wokusela, iindrajana zokubamba imali /amaphepha (ebhinciweko yavuleka netshophekileko) njll.	Amalanga ama 2 nofana Khetha imisetjenzana embadlwana kuphela

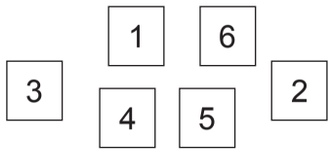
Iveke 24	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Ukwethula ihlathululo yenomboro si-6** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni si-6. Ukubala uye phambili begodu uye emuva ukufika ku-6. Ukubala okungakahleleki 1-10. **Qinisa ukubala ngeenomboro sikhundla**: Utitjhere upaka izinto ezi-3 ngereyi. Ukhomba into ngayinye lokha nakabala yokuthoma, yesibili, yesithathu **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla asi 6. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu. **Okuphathelene nokusikinyeka komzimba** Vumela abafundi bonyana ba: - Bala ufike enomborweni yesi-6 lokha nawukhwela iintebhisi. - Bala uye emuva lokha nawehlako. - Gwala inomboro yesi -6 ehlabathini ukhambe/weqayeqe/weqe ngenyawo linye magega nayo. - Wahla izandla amahlandla asi-6. - Khumbula iinomboro ku-1 ukufika enomborweni yesi-6 ngesede yamatshwayo weenomboro. - Ukupakulula isiphande sekhabo nofana inomboro yomrhala ngamakarada amakhulu wetshwayo lenomboro.	Iingoma zeenomboro nemidunduzelo Yenza isede yakho ekulu yamatshwayo weenomboro, abantwana abangakghona ukuziphatha. Bangafunda inomboro yeminyaka yabo, inomboro yeflede/yomuzi, inomboro yomrhala nofana umalaledinini wababelethi nokhunye okunengi. Isede yenomboro efanako ingasetjenziswa ukukhumbula iinomboro nokupakela iinomboro ngokulandelana.	Ilanga li 1

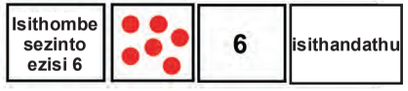
Iveke 24	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Bala izinto ngetlasini. Vumela abafundi bonyana ba: Buza imibuzo enjengo: - Ngiyiphi inomboro ezangemuva kwenomboro yesithathu, ngiyiphi inomboro eza ngemuva kwenomboro yesi 5 njll. - Utitjhere ubeka izinto ngewobhu phezu kwetafula. Vumela abafundi ukulinganisa bonyana zizinto ezingaki ezingewobhini. Ngemuva kwalokho uzibale. - Ukuthuthukisa ilemuko lokutjhejwa kwenomboro ngokuvumela abafundi ba: pake izinto zokubala ezisithandathu nofana nanyana ngiziphi izinto ngeendlela ezihlukeneko isib  Lokha nakubalwako, inani lezinto alithintwa yisayizi yazo, namkha indawo namkha ngabe ngezomhlobo ofanako. Isibonelo: - Hlela iinkunubhe ezi 6, amapensela asi 6, amawupsi asi 6, abafundi abasi 6 njll. - Zibale zihleleke ngeendlela ezihlukahlukeneko isib. Zibale zirhatjhekile, zitjhidelene, zingomuda nofana ziyiwobhu. Hlukanisa abafundi ngeenqhema zangasithandathu. Nikela isiqhema ngasinye amabhlogo wokwakha asi-6. Vumela iinqhema zi: - Bale amabhlogo wazo. - Bakhe umbhotjhongo ngezinto zabo zokwakha ezisi 6. Khuthaza abafundi ukubala “iintina” lokha nabakha umbhotjhongo. - Utitjhere ukhambakhamba esiqhemeni ngasinye alebule iimibhotjhongo yabo ngekarada lenomboro. Abafundi babala inani lemibhotjhongo. Buyelela amahlandla amanengana. - Khetha umfundi ozokuphosa idaysi. Yenza isiqiniseko sokobana woke umfandi uyalibona idaysi. Abafundi babala inani lamaqatjhazi begodu akhombe nombhotjhongo okhambelanako.	Izinto etlasi nasebhodulukweni Sebenzisa imihlobohlobo yeensiza ukukunikela umqondo wokobana ungawasebenzisa bunjani amaqhinga ahlukahlukeneko. Amabhlogo wokwakha asi 6 umfundi ngamunye	Ilanga li 1

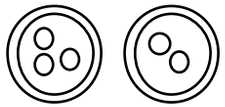
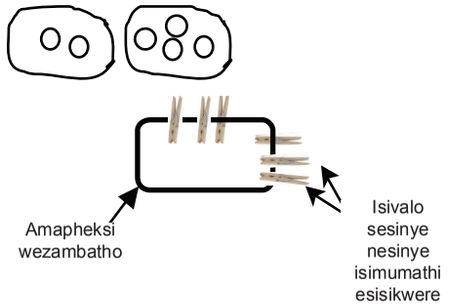
Iveke 24	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukwazi itshwayo lenomboro begodu nokubona igama lenomboro efaka hlangana inomboro si- 6** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni si- 6. Ukubala uye phambili begodu uye emuva ukufika ku-6. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla asi - 6. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu. **Okuphathelene nokusikinyeka komzimba** - Gwala inomboro yesi - 6 ehlabathini/phasi begodu uvumele abafundi ukukhamba magega nenomboro. - Gwala inomboro yesi - 6 ehlabathini, emoyeni. - Yakha inomboro yesi - 6 ngebumba. - Vumela abafundi uku Lisa abafundi baqagele bonyana bafundi abangaki abazotlhogeka ukwenza inomboro yesi - 6 ngemizimba yabo. Bakhe inomboro yesi - 6 ngemizimba yabo. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Beka iwobhu lezinto phezu kwetafula. Dlala ngeenomboro ukusuka kwe -1 ukuya kweyesi - 6 isib. - Vumela abafundi bafunisele bonyana zizinto ezingaki ezikhona: - Bala izinto.	Iingoma zeenomboro nemidunduzelo Izinto ezisi 6	**Ilanga li 1**
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Bona emvangweni wamafletjhi karada lawo aneenthombe ezisi - 6 kiwo begodu bawahlobanise nenani elifanako lezinto zokubala. - Bonisa amafletjhi karada aneenthombe ezisi 6 begodu uwahlobanise nenani elifanako lamatshwayo weenomboro begodu nange nani elifanako lezinto zokubala. - Bonisa amafletjhi karada anamaqatjhazi asi 6 begodu uwahlobanise nenani elifanako lamatshwayo weenomboro begodu nenani elifanako lezinto zokubala. - Ukubona emihlobeni yamafletjhi karada ahlukahlukeneko lawo anegama lenomboro sithandathu kiwo begodu bawahlobanise netshwayo lenomboro nenani elifanako lezinto zokubala.	Iinthombe begodu namafletjhikarada wamaqatjhazi afaka hlangana inomboro si-6.  Izinto zokubala nofana izinto ezibusontathu 	

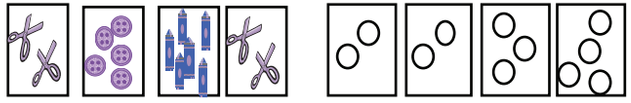
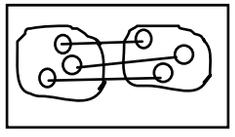
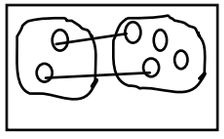
Iveke 24	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.13 **Ukuhlanganisa nokukhupha**	• **Ukurarulula imiraro yokuhlanganisa nokukhupha ngomlomo neensombululo ezifika kusi-6.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni si- 6. Ukubala uye phambili begodu uye emuva ukufika kusi-6. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu. **Okuphathelene nokusikinyeka komzimba** Iimbonelo: 1. Utitjhere ubuzela abafundi aba-3 ngaphambili. Abafundi bayababala. Utitjhere ubiza abanye aba 2 abuze: Bangaki abafundi nasele baboke?" ku 3 naku 2 → 5. (utitjhere uthi: ku - 3 naku -2 kukunikela -5) 2. Utitjhere upakulula iintulo ezi 2. Ufaka zi- 2 godu. Zingaki iintulo ezikhona kwanje? Ku -2 naku 2 → 4. 3. Utitjhere uphakamisa isandla sinye begodu athi: " "Bala imino yami. Nangifihla uthubhakghuru wami, mingaki imino eniyibonako? Ku - 5 ukhupha ku 1 → 4. 4. Vumela abafundi babale imino esandleni sinye sabo. Fihla uthubhakghuru wakho; ubona imino emingaki? Ku - 5 ukhupha 1 → 4.	Iingoma zenomboro nemidunduzelo Abafundi Iintulo	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi ukukhupha izinto zokubala ezisi - 6 begodu benze okulandelako: • Utitjhere unikela umfundi ngamunye izinto zokubala ezisi-6. • Utitjhere unikela iinyalelo begodu abafundi bayaphendula isib. Khupha izinto zokubala ezi - 2, faka ezinye ezi -3. • Zingaki nazizoke? Ku-2 naku 3 → 5. • Bala izinto zokubala ezi -4. Bala zi- 2 uye phambili ukusuka kweyesine. Zingaki onazo kwanje? ku 4 naku 2 → 6. • Bala yoke imincamo onayo. Lokha nawungavala imincamo emibili ngesandla sakho, mingaki imincamo oyibonako? Si - 6 ukhupha ku 2 → 4.	Imincamo nofana izinto zokubala.	

Iveke 24	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.13 **Ukuhlanganisa nokukhupha**	• **Ukurarulula imiraro yamagama ngomlomo efaka hlangana inomboro yesi -6** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni si- 6. Ukubala uye phambili begodu uye emuva ukufika ku-6. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla asi 6. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Iingoma zeenomboro nemidunduzelo	**Ilanga li 1**
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Iimbonelo: 1. UMpho unamakokisi ama-4 . UPeter umngezelelela ngama- 2 phezulu. UMpho sekanamakokisi amangaki nasele awoke? 2. UNobuhle unabonopopi aba -3 begodu uMartha unaba 2. Ngubani onabonopopi abanengi? UNobuhle unabonopopi abanengi ngabangaki ukudlula uMartha? 3. Kuneenyoni ezi -5 phezu kwedrada. Ezi-2 ziyaphapha. Kusele iinyoni ezingaki? 4. UPatrick uneenkoloyi zokudlala ezisi -6. UTiny unazi -4. UTiny uneenkoloyi zokudlala ezingaphas ngazingaki kunezakaPatrick? 5. Umntwana munye unepumulo yinye. Abantwana abathathu bana..... 6. Umntwana munye uneenyawo ezimbili. Abantwana abathathu bana ..... 7. Umntwana munye unemikhono emibili. Abantwana ababili bana ..... 8. Umntwana munye unomlomo munye. Abantwana abathathu bana	Izinto zokubala Sebenzisa imihlobohlobo yeensiza ukukunikela umcabango wokuthi ungawasebenzisa bunjani amaqhinga ahlukeneko.	
3.2 **Izinto ezibusontathu (3-D)**	• **Ukwakha umakhiwo obusobuthathu 3-D ngokuwususela emutlameni nofana ikarada lesithombe** Vumela abafundi bonyana ba: - Khe umakhiwo ngomtlamo nofana ngesithombe. - Rubela/luke umncamo ngokuya ngokulandelana esithombeni esinikelweko.	"Ubujamo beLogi" amabhlogo wekghono. Nofana ngiziphi iintlabagelo zokwakha. Imincamo, iintambo zamanyathelo. Imihlobohlobo yamakarada agwaliweko atjengisa ukulandelana kwemincamo.	

Iveke 25	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elifunyenwe evekeni yama 24 elifaka hlangana inomboro yesi 6 .** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni ku- 6. Ukubala uye phambili begodu uye emuva ukufika ku-6. Ukubala okungakahleleki ukusuka ku 1-10 **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla asi 6. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu.	Iingoma zeenomboro nemidunduzelo	**Ilanga li 1**
	Okuphathelene nokusikinyeka komzimba Asidlale umdlalo: Utitjhere ubeka ubujamo obukhulu benomboro yekhadbhoksi nofana amakarada afaka hlangana iinomboro ku- 1 ukuya esi- 6 **ngokulandelana** phasi eflurwini.. Utitjhere unikela abantwana umyalelo njengokuthi: - Hlala phezu kwenomboro si- 6. - Beka izwani wakho enomborweni yesi -3. - Gijima uzombeleze inomboro yesi -2 kathathu. - Yeqa yeqa phezu kwenomboro ku- 1. - Ngokukhamba kwesikhathi utitjhere angaphadlalaja amakarada wetshwayo lenomboro anikele iiyalelo ezifana nezangehla.	Isede yamakhadbhoksi amakhulu wamakarada wetshwayo lenomboro. Ungawapenda phezu kweenquntu ezidege zeplastiki nofana zekhadibhoksi. 	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Abafundi aba: - Bala izinto etlasini okufaka hlangana iinomboro ku- 1 ukufika kweyesi -6. - Utitjhere ubeka izinto ngewobhu phezu kwetafula. Vumela abafundi ukulinganisa bonyana zizinto ezingaki ezingewobhini. Zibale emva kwalokho.		

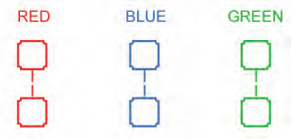
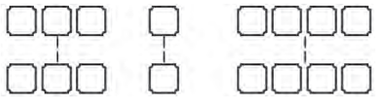
Iveke 25	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukukhumbula nokubona itshwayo lenomboro negama lenomboro elifaka hlangana inomboro yesi 6.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni si- 6. Ukubala uye phambili begodu uye emuva ukufika ku-6. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla asi -6. Buza umbuzo wokobana ngimaphi amawahlo bekamanengi khulu/bekamncani khulu.	Iingoma zenomboro nemidunduzelo	Ilanga li 1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Bonisa abafundi ifletjhi karada elinamaqatjhazi asithandathu begodu ulihlobanise nenani elilinganako lezinto zokubala. - Dlala umdlalo wokukhomba itshwayo lenomboro enqotjhiweko hlangana nezinye begodu uyihlobanise nenani elifanako lezinto zokubala. - Dlala umdlalo wokukhomba igama lenomboro enqotjhiweko hlangana nezinye begodu uyihlobanise nenani elifanako lezinto zokubala. - Dlala umdlalo ngokuhlobanisa inani lezinto zokubala negama lenomboro, itshwayo lenomboro namakarada wenomboro. - Gadangisa umthlala wenomboro si -6 ngekhrayoni.	Izinto nofana izinto zokubala Ifletjhi karada elinetshwayo lenomboro negama lenomboro isib. 	

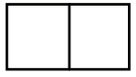
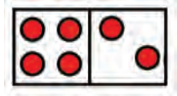
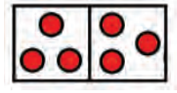
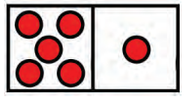
Iveke 25	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Ukuhlela nokumadanisa ibuthelelo lezinto usebenzise "okunengi kuna/okuncani kuna" begodu "nokulingana na" ukufika enomborweni si -6** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni si- 6. Ukubala uye phambili begodu uye emuva ukufika kusi-6. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla asi 6. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu.	Iingoma zenomboro nemidunduzelo	Ilanga li 1 Khetha imisetjenzana embadlwana kuphela
	Okuphathelene nokusikinyeka komzimba - Utitjhere ubeka amawupsi amabili phasi. - Ubiza abufundi aba-3 ukuzojama "ngendlwaneni yenyoni yinye" begodu nabafundi aba -2 ukuzojama "ngendlwaneni enye yenyoni". . - Niyiphi "indlwana yenyoni" enabafundi abanengi ngakiyo?	amawupsi ama 2 	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Abafundi bahlala phezu kwemada benze iindlwana zeenyoni ezimbili ngewulu. - Utitjhere unikela iinlayelo isib. Abafundi babeka izinto zokubala ezi -2 "ngendlwaneni yinye yenyoni" begodu nazi -4 "ngendlwaneni yenyoni" enye. Ngiyiphi "indlwana yenyoni" enezinto zokubala ezinengi? Ngiyiphi "indlwana enezincanyana (ezimbadlwana)"? Ngiyiphi "indlwana" enezineng/ezinengi khulu?" - Buyelela usebenzisa iinomboro ukufika kwezisi- 6. - Utitjhere usebenzisa isivalo sesimumathi se-ayisikhrimu. Uneka amapeksi ama 3 ehlangothini elingaphezulu lesivalo begodu nama 3 ehlangothini langesidleni lesivalo. Ngiyiphi inomboro yamapeksi enengi kunenye, nofana ziyalingana? Abafundi bangenza umsebenzi lo ngeenqhema, esinye nesinye isiqhema nesivalo saso namapeksi wezambatho.	Iingcenye ezi 2 zewulu zomunye nomunye umfundi Izinto zokubala 	

Iveke 25	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere ubonisa amakarada anenomboro ehlukileko yamaqatjhazi neenthombe.  - Vumela abafundi bamadanise amakarada aneenthombe begodu namaqatjhazi kiwo, begodu babone umqondo “wokunengi kuna”, “wokuncani kuna”, “wokulinganako.” - Abafundi bagwala iindlwana zeenyoni esiquntwini sephepha. Lokha nabatjelwako bapakela izinto zokubala endlwaneni yenyoni ngayinye begodu bahlobanise izinto zokubala endlwaneni ngayinye nekhrayoni. Bathuthukisa umqondo onjengokwabelana ngokulinganako isib.  - Yenza ukubuthelela kweenomboro ezizeleko neempendulo ezifaka hlangana neensalela isib. 	Isithombe namakarada wamaqatjhazi Iphepha le-A4 namakhrayoni wamafutha Izinto zokubala	
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula, ukubona nokutjho ubujamo bukasobabili etlasini nangeenthombeni** • **Ukwenza nokuzalisa amaphazeli wakho ama -5** Abafundi ba: - Gwala isithombe ephepheni le A4. - Utitjhere ugwala imida ngemuva komgwalo womfundi. - Umfundi uqunta isithombe sakhe emudeni onikelweko. - Umfundi uzalisa iphazeli yakhe	Amakhrayoni iphepha le-A4 Amakhrayoni Iinkero Imvilobhunofana isikhwama sokuzenzela sokubeka iphazeli (bhinca ipheipha le-A4 unamathelise amahlangothi) 	Ilanga li 1

<table>
<tr><th>Iveke 25</th><th colspan="3">Isikhathi sokufunda esiphakanyisiweko:
Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)</th></tr>
<tr><th>Iinhloko</th><th>Amanothi atladlululako</th><th>Iinsetjenziswa eziphakanyisiweko</th><th>Ukulinganisa ubude besikhathi</th></tr>
<tr><td>5.1
Ukubuthelela nokuhlela izinto ngemihlobo</td><td>• Inani lamaledere egameni lomfundi
Ukurarulula imiraro: Buza abafundi umbuzo:
Kghani amagama anamaledere asithandathu anedumo na/manengi khulu na?”
Singathola bunjani? Ngiliphi ilwazi ekufanele silibuthelele?
Ukubuthelela idatha
- Abafundi babala inomboro yamaledere emagameni wabo elebulini yamagam wabo enziwe ngutitjhere.
- Utitjhere uphakamisa ikarada lenomboro elikhambisana nenomboro yamaledere egameni lomfundi begodu abuze: Ngubani onamaledere ama-4 egameni lakhe atjho aphakamise itshwayo lenomboro ku-4? Buyelela ngazo zoke iinomboro.</td><td></td><td>Amaledere ama 5</td></tr>
<tr><td>5.2
Ukujamiselela ibuthelelo lezinto elihlelekileko</td><td>Gwala igrafu
- Utitjhere ugwala igrafu elandelako lokha nakaphakamisa iinomboro:
<table><tr><th>Amaledere ama 3</th><th>Amaledere ama 4</th><th>Amaledere ama 5</th><th>Amaledere asi 6</th></tr><tr><td>Ann
Sam</td><td>Kady
Mark
Maja</td><td>David
Aidon
Sarah
Caleb
Naila</td><td>Sophie
Jessie</td></tr><tr><td>2</td><td>3</td><td>5</td><td>2</td></tr></table></td><td></td><td></td></tr>
<tr><td>5.3
Coca bewubike ngokuhlelwa kwezinto ezibuthelelweko</td><td>Ukufunda nokurhumutjha igrafu
- Ngiyiphi inomboro yamaledere evela kanengi egameni?
- Magama amangaki anamaledere amanengi kunama 5?
- Magama amangaki anamaledere angaphasi kwama 5?</td><td></td><td></td></tr>
</table>

Iveke 26	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elifunyenweko elifaka hlangana iinomboro ku- 1 ukufika kweyesi -6** **Zomlomo: ukubala izinto zangamalanga.** **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla asi 6. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu. **Okuphathelene nokusikinyeka komzimba** Vumela abafundi bonyana ba: - Ukwakha amatshwayo weenomboro ngemizimba yabo. - Ukuphakamisa inani lemino ngeenyalelo zakatitjhere. - Ukwakha amatshwayo weenomboro ngeenquntu zeentambo nofana ihlama yokudlala. - Ukuzwa ubujamo beenomboro zekhadbhoksi ngemgodleni ufanise inomboro ngayinye. - Tlola amatshwayo weenomboro ku-1 ukufika kweyesi -6 phasi nofana emoyeni njll.	Imidunduzelo yeenomboro neengoma Amasede amabili wamakhadibhoksi wobujamo beenomboro ngemgodleni ophethe izinto okufanel afunisele ngokuzwa/ngokuthinta bona ubambe ini.	Ilanga li 1

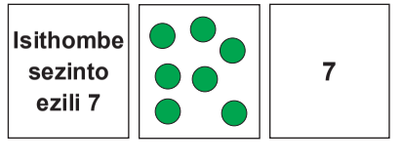
Iveke 26	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi bonyana ba: - Bale izinto etlasini ezifaka hlangana iinomboro ezisuka ku-1 ukufika kusi- 6. - Bale izinto zokubala ukufika enomborweni yesi- 6. - Beke amakhyubhu weyunifiksi ambadlwana nofana izinto zokubala zemibalabala ngereyi phezu kwetafula. - Abafundi bamadanisa amakhyubhu ngokufaka umbala basebenzisa amanye amakhyubhu weyunifiksi nofana izinto zokubala. Isibonelo:  - Yenza iinqheema zobude ezihlukeneko. Abafundi bamadanisa ngokuya ngobungako/ ngobunengi. 	Izinto etlasini. Izinto zokubala zemibala nofana amakhyubhu wamayunifiksi	Ilanga li 1
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukwazi amatshwayo weenomboro nokukhumbula amagama weenomboro afaka hlangana iinomboro ku-1 ukuya kusi- 6** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni si- 6. Ukubala uye phambili begodu uye emuva ukufika ku-6. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla asi -6. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Asidlale umdlalo: - Utitjhere utlola igama lenomboro ehlangothini elinye lekarada atlole itshwayo lenomboro ngakelinye ihlangothini lekarada lona lelo, elifaka hlangana iinomboro ku- 1 ukuya kusi- 6 (yenza amasede ambadlwana). - Abafundi "bafunda" igama lenomboro begodu bafunisele itshwayo lenomboro. - Baphendulela ikarada bazilungise bona ngokwabo.	Ingaphambili lekarada Ingaphandle lekaradda isithan-dathuu 6 Amakarada afaka hlangana iinomboro ezisuku ku- 1 ukufika kweyesi -6 negama lenomboro ehlangothini elinye netshwayo lenomboro kelinye ihlangothi. (yenza amasende ambadlwana ukuze umfundi ngamunye athole ikarada ngalinye).	Ilanga li 1

Iveke 26	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula imiraro yamagama ngomlomo (iimbalo zeendatjana) ebujameni obuthize begodu ahlathulule iinsombululo zakhe emirarweni efaka hlangana inomboro yesi-6.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni si-6. Ukubala uye phambili begodu uye emuva ukufika ku-6. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla asi 6. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Iingoma zeenomboro nemidunduzelo	Ilanga li 1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) 1. Nikela umfundi ngamunye isiquntu sephepha le-A4 elinomuda ogwalwe wajama rwe nezinto zokubala ezisi 6 isib.  2. Vumela abafundi baphose izinto zokubala ngokuyelela esiquntwini sephepha begodu bahlathulule bonyana ziwe bunjani isib.  Ku-4 na ku-2 → 6 (4 na 2 kukunikela 6)  Ku-3 na ku-3 → 6 3. Buyelela godu ngeenomboro ku- 1 ukuya ku ku- 5.  Ku-5 na ku-1 → 6 **4. Ukurarulula umraro**: Hlathulula iinsombululo zakho zemiraro. 5. Yenza njalo nangemiraro yokukhupha	Izinto zokubala ezisi 6 zomfundi ngamunye Iphepha le-A4 elinomuda ojame rwe phakathi.	

Iveke 26	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
4.4 **Umthamo/ Ivolumu**	• **Yethula umqondo wokumeda umthamo ngokumadanisa bonyana iimumathi ezihlukahlukeneko zithatha okungangani isib.** - **“okuzeleko/okunganalitho”** - **“okunengi kuna/okuncani kuna”** - **okunengi/okuncani** Yethula umthamo ebafundini ngokubabuza bonyana ngisiphi isimumathi esithwala okunengi. Esikhathini esinengi abafundi bamadanisa ubude kunomthamo. Isibonelo, lokha nababuzwa bonyana khuyini okumumatha okunengi, simumathi eside nofana isimumathi esifitjhani, abafundi abanengi bazokhetha isimumathi eside nalokha isimumathi esifitjhani ngokweqiniso siphatha okusaketjezi okunengi. **Okuphathelene nokusikinyeka komzimba** “Okunengi kuna/okuncani kuna” - Sebenzisa isimumathi sinye njengesimedo esihlelekileko isib. Ikopi leyogadi. - Nikela abafundi iimumathi zemihlobohlobo. Vumela abafundi bonyana ba: - Thole bonyana ngisiphi isimumathi esiphatha “okunengi” begodu ngisiphi esiphatha “okuncani kuna” kunesimedo esihlelekileko o.u ikopi leyogadi. Ngisiphi isimumathi esinokunengi? Ngisiphi isimumathi esinedlanzana? Nikela abafundi isigobho nethunga elinesanda ukunghwathela isanda ngekopini. Vumela abafundi ba: - Bale bonyana ziingobho ezingaki zesanda azitlhogako ukuzalisa ikopi. Umsebenzi wokulinga ungenziwa ube budisi khulu ngokunikela ngaphezu kwesimumathi esisodwa isib. Ikopi, Irhalasi yeplastiki nejege encani. - Buyelela umsebenzi usebenzise amakopi.	Amanzi (ngesikhathi sokudlala ngamanzi) nesanda (ngesikhathi sokudlala ngesanda endaweni yokudlala ngesanda) iindawo ezilungele ukuthuthukisa umtahmo. Iimumathi zemuhlobohlobo zobujamo nobukhulu obuhlukeneko. Ikopi leyogadi Ithunga elinesanda Ibhigiri Ilebhula letiye	Ilanga li 1 Khetha umsetjenzana munye nofana emibili kuphela

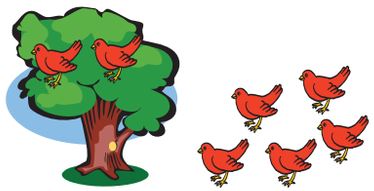
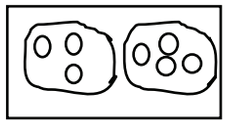
Iveke 26	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	**Ukuhlathulula into eyodwa nofana ngaphezulu ezibosobathathu ezinetjhebiswano enye kwenye** **• Ubujamo bezinto ezimbili nofana ngaphezulu lokha nawuzihlobanisa enye kwenye.** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** **Umsebenzi wephegibhodi** Vumela umfundi bonyana athome ngokusebenzisa isandla sakhe sangesidleni emva kwalokho asebenzise sangesinceleni, bese ke azisebenzise zombili kanyekanye ukubeka amapegsi ebhodini. - Utitjhere utjela abafundi bonyana bawabeke kuphi amapegsi isib. Ereyini elingaphezulu Ereyini elingaphasi Ehlangothini langesinceleni Ehlangothini langesidleni Phakathi nendawo Vumela abafundi: - Ukwenza ubujamo phezu kwephegibhodi ngamapegsi anombala. - Utitjhere utlama iphetheni elula ngamapegsi ephegibhodini yakhe begodu abafundi bakopa iphetheni yakhe ephegbhodini yakhe. - Abafundi bakopa iphetheni ekaradeni elinephetheni egwalwe kilo.	Iphegibhodi yomfundi nomfundi nofana basebenze ngeenqhema. Amakarada anephetheni egwalwe kiyo.  Iphegibhodi yomfundi nomfundi nofana basebenze ngeenqhema. Ikarada elinephetheni egwalwe kiyo.	Ilanga li 1

Iveke 27	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Thula ihlathululo yenomboro li-7** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni li-7. Ukubala uye phambili begodu uye emuva ukufika li-7. Ukubala okungakahleleki ukusuka ku 1-10. **Qinisa ukubala ngeenomboro sikhundla**: Utitjhere upakela izinto ezi-3 ngereyi. Ukhomba into ngayinye lokha nakabala *kokuthoma, kwesibili, kwesithathu, kwesine.* **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla ali-7. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu. **Okuphathelene nokusikinyeka komzimba** - Utitjhere uhlukanisa abafundi ngeenqhema. Unikela isiqhema ngasinye amabholo ali-7 enziwe ngephephandaba. - Vumela abafundi baphosele amabholo ngethungeni. Abafundi kufuze babalele phezulu lokha nabaphosela amabholo. - Bala amahlandla utitjhere aqoqoda ngawo phezu kwetafula umlingise. - Bala ukuya ngokulandelana kwamagido lokha abafundi nabehla iintebhisi, beqela ngaphakathi nangaphandle kwamawupsi. - Gadanga ngeenyawo ngokulandela amagido alandelanako.	Imidunduzelo yeenomboro neengoma Amabholo wamaphephandaba Amathunga	Ilanga li 1

Iveke 27	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Utitjhere ubeka iwobhu lamabhlogo wokwakha ekabeni yetlasi. Unikela iinlayelo ezinjengo: - Thatha amabhlogo ama -3 ewobhini. - Thatha amabhlogo ama -4 ewobhini begodu ubuyisele mabili njll. - Utitjhere ubeka izinto ewobhini phezu kwetafula. Vumela abafundi balinganise bonyana zizinto ezingaki ezingewobhini. Zibale emva kwalokho. - Ukuthuthukisa ilemuko lokutjhejwa kwenomboro ngokuvumela abafundi ba pake izinto zokubala ezilikhomba nofana nanyana ngiziphi izinto ngeendlela ezihlukeneko isib  Lokha nakubalwako, inani lezinto alithintwa yisayizi yazo, namkha indawo namkha ngabe ngezomhlobo ofanako. Isibonelo: - Hlela iinkinobho ezili-7, iimpensela ezili-7, amawupsi ali-7, abafundi abali -7 njll. - Zibale zihleleke ngeendlela ezihlukahlukeneko isib. Zibale zirhatjhekile, zitjhidelene, zingomuda nofana ziyiwobhu.	Amabhlogo wokwakha nofana amabhlogo weLego.	Ilanga li 1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Asidlale umdlalo: - Utitjhere ugwala nofana anamathelise iinthombe ehlangothini elinye lekarada begodu agwale inani elifanako lamaqatjhazi kwelinye ihlangothi lekarada okufaka hlangana iinomboro ukusuka kweyoku-1 ukuya kweye-7 (yenza amasede ambalwa) - Unikela umfundi ngamunye isede yinye yekarada. - Abafundi babala ina I leenthombe ekaradeni. - Jikisa ikarada begodu ubale inani lamaqatjhazi. - Utitjhere uphakamisa ikarada lakhe linye elinamaqatjhazi. - Abafundi bamadanisa ikarada labo ngenani lamaqatjhazi wakhe. - Utitjhere uphakamisa isede yakhe yamakarada anetshwayo lenomboro. - Abafundi bamadanisa ikarada wabo netshwayo lakhe lenomboro. - Umfundi onekarada elifaneleko angasikima begodu abalele phezulu inani leenthombe.	**Amasede ambadlwana** wesithombe, iqatjhazi begodu nefletjikarada letshwayo lenomboro efaka hlangana iinomboro ezisuka ku-1 ukufika kuli-7  	

Iveke 27	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.13 **Ukuhlanganisa nokukhupha**	• **Ukurarulula imiraro yokuhlanganisa nokukhupha ngomlomo neensombululo ezifika kuli-7.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni li-7. Ukubala uye phambili begodu uye emuva ukufika li-7. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla asi-7. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu.	Iingoma zeenomboro nemidunduzelo	Ilanga li 1
1.6 **Amaqhinga wokurarulula imiraro**	**Okuphathelene nokusikinyeka komzimba** - Sebenzisa ileri yenomboro ebekwe phasi yaparalala (ngokuthabalala/buvundla) - Ngaso soke isikhathi thoma nge 0. Ngaso soke isikhathi bala lokha nawukhambako. Utitjhere uyabuza bonyana: - Ngiyiphi inomboro eza hlangana kweye 4 neyesi 6? Abafundi balemuka ukusebenzisa ileri yenomboro. - Ngiziphi iinomboro eziza hlangana kweyesi 2 neyesi 5? - Sebenzisa imiqondo yakho ukuvumela abafundi balemuke ihlathululo lenomboro ye-7 ngokuphathelene nemizimba yabo. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Nikela umfundi ngamunye imincamo nofana izinto zokubala ezili-7. Buza imibuzo enjengoku: - Tjhidisa into yokubala yi-1 ehlangothini elinye (esinceleni). Nasingafaka enye into yokubala kileya esesinceleni, sinazingaki kwanje? - Ku-1 naku-1 → 2 (utitjhere uthi: 1 na 1 ku 2) - Tjhidisa izinto zokubala ezi- 4 ngesinceleni. Nasifaka ezinye ezi-2 izinto zokubala ngesinceleni, sinazingaki? - Ku-4 na ku-2 → 6 - Unezinto zokubala ezi-5 ukhupha ezi-2, kusele zingaki?	0 1 2 3 4 5 6 7 Imincamo nofana izinto zokubala Izinto zokubala	

Iveke 27	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.11 **Imali**	• **Ukukhumbula nokubona imali yamaphepha yeSewula Afrika** - Sebenzisa imali yamaphepha isib. R10, R20, R50, R100, R200 - Yenza abafundi balemuke iinthombe zeembandana ezihlukeneko emalini yamaphepha. - Lingisa ngemali ehugwini “yendlu”.	limbonelo zamambala zemali yamaphepha e- R10, R20 nama R50 (nofana usebenzise imali yokudlala)	Ilanga li 1
1.9 **Ukubuthelela nokwabelana okurholela ekuhlukaniseni**	• **Ukurarulula nokuhlathulula iinsombululo zemiraro yamagama ngomlomo ebujameni obuthile (iimbalo zeendatjana) ezifaka hlangana:** - **ukwabelana ngokulinganako,** - **ukubuthelela ngeenomboro ezizeleko/ezibanzi begodu** - **neensombululo ezineensalela ezifika enomborweni ye-7** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni li-7. Ukubala uye phambili begodu uye emuva ukufika li-7. **Ukuqinisa umqondo “wokunengi nokumbadlwana”.** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla asi-6. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu.	lingoma zeenomboro nemidunduzelo	Ilanga li 1 Khetha kunye nofana okubili kuphela kokuphathelene nokusikinyeka komzimba Imisetjenzana ephathekako nepheze iphatheke

Iveke 27	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.9 **Ukubuthelela nokwabelana okurholela ekuhlukaniseni**	**Okuphathelene nokusikinyeka komzimba** Yenza amasede usebenzisa abafundi: Iimbonelo: 1. Vumela abafundi ukwakha iinqhema zanga 2, 3, 4, 5 nesi 6. Bala bonyana bangaki ngesiqhemeni. 2. Gwala ubujamo obukhulu ekhonkhridini nofana esandini. Abafundi benza iziqhema isib. Abafundi aba 4 ngaphakathi kobujamo. 3. Ngesikhathi sejayezo leenqabuli utitjhere uthi: " ningakhamba ngesiqhema sangabane ukuyohlamba izandla "kunokuthi" "Abafundi abane bangakhamba bayokuhlamba izandla zabo". 4. Khetha abafundi abali -7 usebenzisa umdunduzelo wokubala. 5. Abafundi abali -7 abazenze anga baziinyoni benze "umuthi wokudlalisa" ngokusebenzisa iintlhabagelo zokukhwela ngaphandle nofana iintulo namatafula ngaphakathi. 6. Utitjhere uthumela iinyoni ezi -2 "emuthini wokudlalisa" (abafundi aba 2 bakhwela phezu kweentlhabagelo). Enye inyoni godu ikhwela emthini ngasikhathi sinye. " ziinyoni ezingaki ezisemthini njenganje, begodu ziinyoni ezingaki eziphasi? 7. Buyelela ukubuthelela abafundi usebenzisa iinomboro ukusuka enomborweni ku-1 ukuya kwezili -7 **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Iimbonelo: 1. Utitjhere unikela abafundi izinto zokubala. Abafundi abenze isede yezinto zokubala ezi 4. Yenza enye isede yanga 3. "Zingaki izinto zokubala osele unazo ngesedeni etja?" 2. Abafundi abagwale iindulungu ezimbili esiquntwini sephepha. Ngokutjelwa ngutitjhere, abafundi bapaka izinto zokubala emasedeni womabili ukwenzela bona kube nezinto ezinengi zokubala esedeni yinye kunasesedeni enye. Buza imibuzo enjenge: "Ngiyiphi isede enezinto zokubala ezinengi/ezincani?"	Sebenzisa iintlabagelo ukukunikela umqondo wokuthi ungawasebenzisa njani amaqhinga ahlukahlukeneko. Izinto zokukhwelela nofana iintafula neentulo.  Izinto zokubala Umfundi ngamunye uthola isiquntu sephepha nekhrayoni izinto zokubala 	

Iveke 27	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
4.4 **Umthamo**	**Umadanise ahlele izinto eziphathekako asebenzisa ilwazimagama ukuhlathulula** a) umthamo b) okunganalitho, okuzeleko, okuncani kuna, okunengi kuna, okunengi, okuncani • **Qinisa ilwazi elifunyenwe evekeni yama 26 elifaka hlangana umthamo.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni li- 7. Ukubala uye phambili begodu uye emuva ukufika li-7. Ukubala okungakahleleki ukusuka ku 1-10. **Qinisa umqondo "wokunengi nokumbadlwana"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla ali- 7. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/ mancani khulu.	Amanzi (nesikhathi sokudlala ngamanzi) nesanda (ngesikhathi sokudlala ngesanda emgodini wesanda) iindawo ezilungile zokuthuthukisa umthamo. Ingoma yenomboro nemidunduzelo Iimumathi zemihlobohlobo zobujamo nobukhulu obuhlukeneko	Amalanga ama 2 Nofana ukhethe imisetjenzana emibili nofana emithathu kuphela
	Okuphathelene nokusikinyeka komzimba Abafundi aba: - Lungisa iimumathi ezingenalitho ezimbili ukuya kwezintathu ezihlukeneko ukwenzela umthamo. Ngamanye amagama ngisiphi isimumathi esizokuphatha okunengi nofana okuncani? Abafundi bangalinga ukufunisela kwabo ngokuthela iinkopi zamanzi ngeemumathini ezingenalitho begodu babale bonyana ngisiphi esithethe iinkopi ezinengi. Ngezelela inani leemumathi ezingenalutho ukwenza kube budisi khulu. - Abafundi bangasebenzisa ikopi lelo njengesimedo bathole bonyana ziinkopi ezingaki zereyisi nofana zeembhontjisi nofana isanda ezingazalisa iimumathi ezifana naleza ezisetjenziswe ngehla. - Hlela umhlobo ofanako weemumathi (isib. Amathunga emgodini wesanda) ukusuka kwesincani ukuya kwesikhulu. - Nikela abafundi umhlobohlobo weemumathi (zobukhulu/isayizi nobujamo obuhlukeneko) begodu ubuze imibuzo enjengokuthi: o "Ngiziphi iimumathi kilezi ocabanga bonanya ziphatha isanda/amanzi amanengi? o Lokha nawuthela amanzi uwathatha kwesinye isimumathi uwathele kwesinye, funisela bonyana uzowazalisa na?" - Abafundi abazitholele okwenzekako esimumathini samanzi esizalisiweko lokha nakufakwa izinto ezincani isib. Faka amatjana ahlanzekileko, amabhlogo weLego, amabhlogo wamaplastiki isib. Abafundi bajabulela umdlalo wokufunisela lapho bafunisela khona bonyana ngisiphi isimumathi esiphatha okunengi begodu bahlole imiphumela ukubona bonyana ngubani ophumelelako. (utitjhere uyatjho bonyana izinto ezithayako ngeze zaba nomthelela ekuphakameni kwamanzi).	Ikopi Ikopi Ireyisi Iimbhontjisi Amathunga wobukhulu obuhlukahlukene wangemgodini wesanda. Iimumathi zemihlobohlobo zobujamo nobukhulu obuhlukeneko Amanzi Isanda Izinto ezinjengamatjana , amabhlogo wamaLego, amabhlogo wamaplastiki	

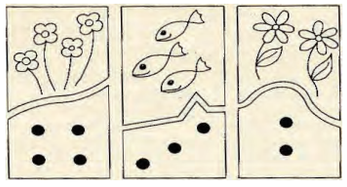
Iveke 28	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elifunyenweko elifaka hlangana inomboroli-7** **Komlomo:** Bala izinto zangamalanga ukufika ku-7. Bala uye phambili nasemva ukufika kweye 7. **Ukuqinisa umqondo "wokunengi nokumbadlwana".** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho iamahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla asi 7. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Imidudunzelo yeenomboro neengoma	Ilanga li 1
	Okuphathelene nokusikinyeka komzimba - Abafundi ababili babazelwa phambili. Abanye abafundi bayababala. Abafudni ababili abaphambili baphakamisa itshwayo lenomboro elikhambisanako. - Ubiza omunye godu umfundi aye phambili. Abanye abafundi bayababala. Umfundi munye phambili uphakamisa itshwayo lenomboro elikhambisanako eliyinomboro yesi 3. - Ragela phambili kuze kube bafundi abali 7 phambili.	Amakarada wetshwayo lenomboro afaka hlangana iinomboro yoku 1 ukufika kweye 7	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Beka amakorikoti ngereyi isib.  - Abafundi abafake imbewu/ilitje linye ebhlegeni lokuthoma, iimbewu ezimbili/amatje amabili ebhlegeni lwesibili, iimbewu ezintathu ebhlegeni lesithathu, begodu uragele phambili ukufikela lapho ibhlege linani leembewu/lamatje njengombana kutjengisiwe ngaphandle kwebhlege. - Thatha idlanzana lamakhrayoni (hlangana kwe 10 ne 15) ulifake ekopini. Bawa abafundi bonyana bafunisele bona mangaki angekopini. Cocisanani ngeempendulo zabo. - Batjengisa bona zibalwa bunjani ngokukhupha ngayinye bazibeke ngereyi.	Amabhlege ali-7 ananyatheliswe ngetshwayo lenomboro Iimbewu nofana amatje Amakhrayoni nebhigiri	

Iveke 28	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukukhumbula itshwayo lenomboro negama lenomboro efaka hlangana inomboro ye 7** **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Dlala umdlalo: - Abafundi bahlala benze iindulungu. Beka ikarada yenomboro liqale phasi phambi komunye nomunye umfundi. (kungaba itshwayo lenomboro, igama lenomboro, ikarada leqatjhazi nofana ikarada lesithombe efaka hlangana iinomboro ukusuka kwa 1 ukuya kweye 7) - Fundisa abafundi ukudlulisela ikarada emfundini olandelako ngokuwatjhelelisa aqale phasi eflurini/emadeni. - Abafundi bayavuma: inomboro eyifihlo", inomboro eyifihlo,kungaba yini? Iza ngihlole" - Abafundi bahlola amakarada wabo. - Utitjhere uphakamisa ikarada lakhe lenomboro. - Abafundi abanekarada elifana ne karada lakatitjhere, baphakamisela ikarada katitjhere phezulu begodu batjho bonyana: "ngizokuphakamisela ikarada lami phezulu, ukuze woke umuntu alibone".		Ilanga li 1
3.2 **Izinto ezibusontathu (3-D)**	**Ukwakha izinto zakasobathathu (3-D) usebenzisa imethiriyali ephathekako** • **Kopa umakhiwo emtlameni nofana ikarada yesithombe** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Umfundi wakha umakhiwo lowo ofanako ukusuka ematlameni nofana esithombeni. - Kopa umtlamo ofanako esithombeni usebenzisa iphegibhodi. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Dlulisela umsebenzi lo ebukghwarini bokubona. - Nikela umfundi ngamunye iphepha nemihlobohlobo yeendulungu ezikulu nezincani, aboncantathu neenkwere. Vumela abafundi bonyana ba: - Qunta ubujamo wakhe umakhiwo obusobubili (2-D) ephepheni begodu ubunamathisele. - Rhabisa isithombe ngemigwalo.	"Amajamo weLogi" amabhlogo wekghono "Amabhlogo wobuchopho" nofana ngiziphi izinto zokwakha iphegibhodi. Ezinye nezinye iintlabagelo zokwakha. Iphegibhodi Imihlobohlobo yeendulungu ezikulu nezincani, aboncantathu neskwere ephepheni Iinkero, isinamathelisi	Ilanga li 1 nokuragela phambili

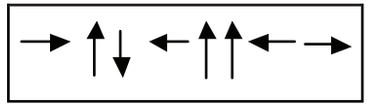
Iveke 28	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
3.4 **Isimethri**	• **Thuthukisa ikghono lokweqa umuda ophakathi wangaphakathi** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi bonyana ba: - Buyekeza ilwazi langaphambili elifunyenweko; thinta iingcenye zomzimba ezihlukeneko ngelayelo. Dlala umdlalo othi " uSimon uthi: thinta i ....." - Nikela iinyalelo eziya phambili lapho abafundi nabeqa umuda wabo ophakathi njengokuthi: thinta idolo lakho ngepumulo. Thinta ihlombe lakho ngendlebe. Thinta idolo lakho langesinceleni ngenyawo langesidleni. Thinta indololwana yakho ngesandla sakho njll.	Umdlalo: "USimon uthi, ithinta I ….."	**Ukukhumbula umuda wesimethri kuwe nasebhudulu-kweni** - Ukweqela ngale komuda ophakathi
	Sebenzisa izinto zakasobathathu (3-D) eziphathekako Vumela abafundi bonyana ba: - Gwala iindulungu ezikulu etjhogibhodini. - Gwala umuda onqophileko etjhogibhodini. Yenza isiqiniseko sokobana umfundi weqa umuda wakhe ophakathi. - Etjhogibhodini gwala umuda ukusuka eqatjhazini linye ukuya kelinye elikude. - Gwala umgwalo othabaleleko wobunane etjhogbhodini. Sebenzisa imikhambo emikhulu ukuqinisekisa bonyana umfundi weqa umuda wakhe ophakathi. (umfundi usebenzisa izandla zombili sesincele nesokudla).	Abafundi bagwala etjhogibhodini 	
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Hlanganisa nobuKghwari Bokubona Vumela abafundi bonyan ba: - Pende iphepha elikabili lephephandaba ukusuka esinceleni ukuya esidleni.	Umfundi ngamunye unikelwa iphepha elikabili lephephandaba. Ipende nebhratjhi	

Iveke 28	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atladlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
4.3 **Ubungako/ Ubudisi**	**Ukumadanisa nokuhlela izinto eziphathekako usebenzisa ilwazimagama elifaneleko ukuhlathulula bonyana:** - **ubudisi isib. Okulula, okubudisi, okulula khulu, okubudisi khulu** • **Yethula umqondo wobungako** Ukumeda ubudisi/imasi kutjho ukuthola bonyana into inobudisi obungangani. **Okuphathelene nokusikinyeka komzimba** Abafundi abafunisele ubudisi/imasi ye/ bezinto: - Bamba izinto ezilandelako, yinye ngesandleni esinye nesinye ukukghona ukufunisela bonyana ngiyiphi ebudisi khulu nofana elula khulu isib. o Ilitje nebhlogo lokwakha. o Ikoloyi yokudlala yeplastiki nekoloyi yokudla yesimbi. o Ibhlege lekofi nephepha langendlwaneni. o Ibholo ekulu yeraba nebholo lekhrikhethe. Esikhathini esinengi abafundi bajaja into ekulu njengebudisi lokha nabababawa bonyana bafunisele ubudisi bezinto ezimbili. - Ukuthula isikala sokudzimelela isib. Kala izinto ukubona bonyana ngibaphi abafundi abagade balungile. - Buza imibuzo enjengokuthi: “Ngiyiphi into ebudisana /eludlana?” Abafundi abathole into ngetlasini abacabanga bonyana ibudisana/iludlana kunezinto abazikalileko. - Yenza isikali sokudzimelela sibe khona ngesikhathi sokudlala okutjhaphulukileko ukwenzela bona abafundi baragele phambili ngomsebenzi wokukala. - Beka isikali sokudzimelela “ehugwini yendlu” ukwenzelabona abafundi babone bonyana mabhlogo amangaki weLego akala ngokulinganako bne -apula, isibonelo, 	Izinto ezibusontathu (3D) zobudisi nobukhulu obuhlukeneko isib. Amabhlogo weLego, amathoyisi, amabhlogo wokwakha, amabhlege, iimumathi njll. **Iskali sokudzimelela** Ungenza isikali esilula: - Uzotlhoga ihanghere yembaji yeplastiki, - Iimumathi ezimbili ezincani ezirondo nofana amabhodlela weenselo ezimakhaza neentambo. - Vula imigojana emibili iqalane emabhodlelweni wesiselo esimakhaza. - Lengisa iimumathi/amabhodlela emkhawulweni yomibili yehangere – uzakuba nesikali. - -Phanyeka ihangere espikirini nofana ehugwini begodu abafundi bangathoma bakale – - Bonisa abafundi bonyana ihangere kufuze ithome ngokudzimelela esikhathini ngasinye sokuthoma ukukala.	Ilanga li 1 Khetha umsetjenzana munye nofana emibili kuphela

Iveke 29	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elifunyenweko elifaka hlangana iinomboro ku-1 ukuya kweye 7** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni li-7. Ukubala uye phambili begodu uye emuva ukufika li-7. Ukubala okungakahleleki ukusuka ku 1-10. **Qinisa umqondo waka "nengi nambadlwana"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla ali-7. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Imidunduzelo yeenomboro neengoma	Ilanga li 1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi bonyana ba: - Buthelela amaqwatjhi. Wabeke ngetlasini ukuzowasebenzisa godu. - Sebenzisa amaqwatjhi wakho isib. Ukutlola itshwayo lenomboro ku-5.  nofana nofana njll.	Amaqwatjhi	
	Vumela abafundi bonyana: • Sebenzisa isede yakho yama fletjhi karada afaka hlangana iinomboro ku-1 ukuya enomborweni ye-7. • Gwala inani lezinto ngeenyalelo zakatitjhere isib.gwala iindulungu ezi-2. • Bala uye phambili ukusuka enomborweni onikelwe yona isib. Utitjhere utjho inomboro kuthathu. Umfundi uzokubala aye phambili ..... kune, kuhlanu, sithandathu. • Ngesikhathi seenqabuli utitjhere uzabuza bonyana: "Bafundi abangaki abaneembedlezwana zobrotho obunzima? Bangaki abanembedlezwana zoburotho obumhlophe? Ngabe abantwana abanengi baneembedlezwana zoburotho obumhlophe? Ngibuphi obunengi/obuncani? • Utitjhere ubeka izinto ngewobhu phezu kwetafula. Abafundi abalinganise bona zingaki izinto ewobhini.Zibale emva kwalokho.	Isithombe namafletjhi karada anamaqatjhazi afaka hlangana inomboro yoky 1 ukuya kweye 7 Itshwayi lenomboro negama lenomboro efaka hlangana iinomboro ezisuka kwe 1 ukuya enemborweni ye 7 isib.  Iphepha nekhrayoni	

Iveke 29	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukukhumbula itshwayo lenomboro negama lenomboro efaka hlangana iinomboro yoku 1 ukuya kweye 7** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni li- 7. Ukubala uye phambili begodu uye emuva ukufika li-7. **Qinisa umqondo waka "nengi nambadlwana"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla asi 7. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu. **Okuphathelene nokusikinyeka komzimba** - Beka amakarada wetshwayo lenomboro amakhulu magega netlasi nofana endaweni yangaphandle yokudlalela. - Biza indawo "Iphasi lenomboro " begodu abafundi ba "MaKhosi weeNomboro begodu/ nofana iKosazana yeeNomboro" Beka umqhele ehlokweni yomunye nomunye umfundi eyenziwe ngekhadibhoksi, ngeenomboro ezitlolwe zabonakala kiyo. - Nikela abafundi iinyalelo njengokuthi: o Abantwana boke abambathe okubomvu abeqe baye ku 2. o Boke abantwana abeneenhluthu ezide, khamba ngamazonzwani niyokufika enomborweni yesi 6.	Iingoma zenomboro nemidunduzelo 3 5 2 Amakarada amakhulu wamatshwayo weenomboro Inani elaneleko lemiqhele yeenomboro lomfundi nomfundi elenziwe ngekhadbhoksi elitlolwe iinomboro.  	Ilanga li 1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Vumela abafundi bonyana ba: - Gwala inani lamaqatjhazi ngeenyalelo zakatitjhere isib. Gwala amaqatjhazi ama 2. Buyelela ngeenomboro ezisku kwe 1 ukuya kweye 7. - Yiba namasede amanengi wamatshwayo weenomboro namakarada wamagama weenomboro atholakalako. Nikela umfundi ngamunye ikarada linye. Utitjhere uphakamisa ikarada begodu abafundi abaphethe elifana nelakhe baphakamisa wabo. - *Isiphakamiso*: Bandakanya abafundi ekwenzeni amakarada wabo. - Dlala imidlalo yokumadanisa ngamafletjhi karada wetshwayo lenomboro nawegama lenomboro.  	Iphepha nekhrayoni Ngaphezu **kwesede yinye yamakarada weenomboro** ezifaka hlangana iinomboro ukusuka kweyo 1 ukuya kweye 7 isib  	

Iveke 29	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula imiraro yokuhlanganisa nokukhupha ekhulunywe ngomlomo neensombululo ezifika kuli-7.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni li- 7. Ukubala uye phambili begodu uye emuva ukufika li-7. **Qinisa umqondo waka "nengi nambadlwana"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla asi 7. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu. **Okuphathelene nokusikinyeka komzimba** - Qala iimveke 24 no 27 ukuthola umbono - Sebenzisa ilwazi lakho ukuvumela abafundi balemuke ihlathululo lenomboro ye 7 ngokuphathekako basebenzise ukusikinyeka kwemizimba yabo. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Qala iimveke 24 no 7 ukuthola umbono - Sebenzisa ilwazi lakho ukuvumela abafundi balemuke ihlathululo lenomboro ye 7 ngokusebenzisa izinto ezibusontathu eziphathekako.	Iingoma zeenomboro nemidunduzelo Izinto zokubala	Ilanga li 1

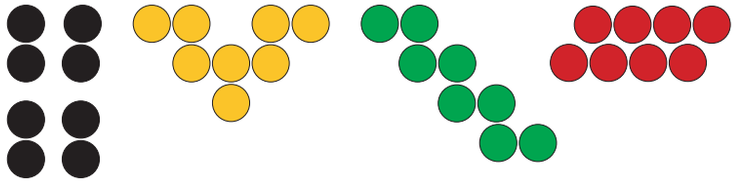
Iveke 29	**Isikhathi sokufunda esiphakanyisiweko:** **Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	• **Landela ikombatjhuba ukhambe nofana uzibeke endaweni ethize (ikombatjhuba) Ukuthuthukisa umuzwa wekombatjhuba ngokusebenzisa abotjhobi bamafletjhi karada begodu bnetjhadi labotjhobi.** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi ukukhamba batjhinge emahlangothini ahlukeneko: - emnyango - efesidereni - ehugwaneni yeencwadi njll. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi bonyana ba: - Gwale ubujamo obuthabaleleko benomboro bunane etjhogibhodini. Qinisekisa bonyana abafundi beqa umuda wabo ophakathi wangaphakathi isib. 	Itjhogibhodi	Ilanga li 1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Vumela abafundi ngayedwana nofana ngeenqhema ezincani ba: - Hlale baqale ifletjhi karada begodu bakhambise umkhono wabo utjhinge lapho ikomba tjhuba iqale ngakhona begodu akhulume lokha nawenzako isib. Lokha umfundi nakakhupha umkhono wakhe, kufuze atjho bonyana “ngesidleni”. - Amakhambo wokuya phasi naphezulu umfundi angasebenzisa nofana ngimuphi umkhono. - Tjengisa ikombatjhuba etjhadini labotjhobi. - Namathisela umtlhala weenyawo ekombatjhubeni yokuya emnyango. **Itheminoloji / amagama azokusetjenziswa:** Phezulu/phasi; phakathi/ ngaphandle;phezulu/phasi;phambili/emva; ngaphambili/ngemva; ngaphezulu/ngaphansi nofana phezulu/phasi/ngaphasi; Ihlangothi linye/ihlangothi elinye; eqadi kwa; esinceleni/esidleni	Ifletjhi karada elinetjhobi linye. Jikisa ifletjhi karada liqale eenkombatjhubeni ezihlukeneko. **Itjhadi labotjhobi (**iphosta enabotjhobi abaqale emahlangothini ahlukeneko)) 	

Iveke 29	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliwekookhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
4.3 **Ubungako/ Ubudisi**	• **Ukuqinisa ilwazi elifunyenwe evekeni yama 28 efaka hlangana ubudisi elula khulu/ebudisi khulu** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi bonyana ba: - Madanisa ubudisi beemumathi ezintathu ukuya kwezihlanu ezifanako (isib. Amabhlege angenalitho we 400g) aphethe amanani ahlukeneko wesanda, ukwenzela bona ubudisi bawo buhluke. - Abeke ngokulandelana ukusuka kwelilula khulu ukuya kwelibudisi khulu ngokuzwa ubudisi. Emva kwalokho isikali sokudzimelela singasetjenziswa ukutjho bonyana abafundi bebagade baqinisile nofana awa. - *Isiphakamiso:* Linga bona mawatjhere nofana iimpikiri ezingaki ezingafakwa esikalini bona sithole ubudisi obulinganako. Kungasetjenziswa ezinye nezinye izinto. Utitjhere ubeka ama-athikili anobudisi obuhlukileko eemumathini ezivalekileko ezifanako isib. Iimumathi zetjhiuzi , sinye siphethe ibhlogo esinye siphethe ibholo yetenese. Vumela abafundi bonyana ba: - Bezwe umehluko hlangana kobudisi bezinto ezimbili begodu bafunisele bonyana ngiyiphi elula khulu nofana ebudisi khulu. - Sebenzisa isikali sokudzimelela ukufika ependulweni ekungiyo. - Tjhijila abafundi ukuthola izinto ngetlasini ezinobudisi obufanako. Umgodi wesanda nendawo yamanzi yokudlala ziindawo ezinesizo okufanele zisetjenziswe ukuqinisa umqondo onjengobulula/obubudisi/obubudisi khulu usebenzisa izinto zokubala zobukhulu obuhlukeneko isikali sokudzimelela, isanda emanzana newomileko. **YELELA: Hlala nabafundi lokha nabakhuluma, bacocisanako begodu nabahlathululako.**	Amabhlege angenalitho wobukhulu obufanako Isikali sokudzimelela Izinto ezinjengamabhlogo weLego Izinto ezinobudisi obuhlukeneko njenganawatjhere nofana iimpikiri Iimumathi ezimbili zetjhizi yekhotheji; yinye enebhlogo nayinye enebholo yetenese. Umgodi wesanda Isikotlelo samanzi sokudlalela, isimumathi nofana ithrafu	Ilanga li 1

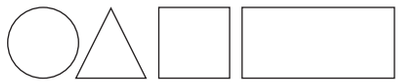
Iveke 30	Sebenzisa iimveke ezili 30 ukutjheja ubuthakathaka bomqondo begodu / nofana iinqabi zokufunda eziholakeleko.	
Okumumethweko	**Isihloko**	**Isilinganiso sokuhlola**
Iinomboro, ama-Opharetjhini Nobudlelwana	**1.1 Ukubala**	Linganisa begodu ubale ngokungakahleleki kufika ku li- 7 (lingoma zeenomboro nemidunduzelo ifakwe hlangana ukuthuthukisa umqondo weenomboro)
		Bala uye emuva naphambili (1- 7)
		Ukwazi bona ngiliphi ihlandlha lokuwahla elinengi/elimbalwa
		Ukukhumbula iinomboro endaweni ejayelekileko isib. Unyaka, iregista (hlola godu)
		Ukubona iinthombe zeenomboro namakarada wamaqatjhazi ukufika enomborweni ye 7.
		Ukwazi amatshwayo weenomboro 5, 6, 7
		Ukukhumbula amabizo weenomboro kuhlanu, sithandathu, likhomba.
		Ukuhlukanisa phakathi kwaka kunengi, kuncani begodu kuyalingana, okunengi nokuyidlanzana ukufika ku li -7
		Ukukhumbula umbala begodu neenlwana ezihlukahlukeneko ezisemalini yephepha ye Sewula Afrika.
	1.6 Amakghono wokurarulula Imiraro	Ukusebenzisa izinto eziphathekako
		Ukuhlathulula ukucabanga kwakhe ngamagama begodu nangokugwala nofana izinto eziphathekako.
	1.7 & 1.13 Ukuhlanganisa nokususa/ Ukukhupha.	Ukusombululula imiraro yokuhlanganisa nokukhupha ngehloko ukufika ku ku - 7
Amaphetheni, amaFanktjhini & Aljibra	**2.1 Amaphethini weJiyomethri**	Ukukopulula , ukwengezelela nokwakha amaphetheni wakho usebenzise iinthombe
Isikhala noBujamo (Jiyomethri)	**3.1 Ubujamo, ukuzijayeza nokubukela**	Ukwazi ubujamo bezinto ezimbili nofana ngaphezulu mayelana nenye kwenye - Ngaphambi kwe, ngemva, phezu kwe, phezu, ngaphasi, eduze ne, phakathi, ngesinceleni, ngesidleni
		Ukukhupha iinlayelo ngephegibhodi
		Ukwazi ikombatjhuba etjhadini labotjhobi.
	3.2 Izinto ezibusobuntathu (3-D)	Ukwakha ususela esibonelweni sokwakha esinikelweko.
		Ukukopulula umakhiwo kusukela emtlamweni nofana esithombeni nofana ekaradeni lesithombe
	3.3 Ubujamo obubusobubili (2-D)	Ukwakha okungaseani iphazeli yeentokana ezili-18.
		Ukukhumbula, ukubona nokutjho isikwere.
		Ukuzwisisa ukungatkjhuguluki kobujamo obufundiweko ukufikela ngalesisikhathi (ukubulunga ubujamo)
Ukumeda	**4.2 Ubude**	Ukulinganisa begodu nokumeda ubude bezinto ezihlukahlukeneko.
	4.3 Ubudisi /Ubungako/imasi	Ukuzwisisa imiqondo ethi “kulula, kubudisi;kuludlana, okubudisana; okubulula khulu,okubudisi khulu”
	4.4 Umthamo/ivolumu	Ukuzwisisa umqondo othi “okunganalitho,okuzeleko , okunengi kuna, okuncani kuna”

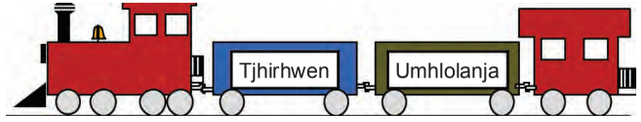
Ukuphatha Idatha	**5.1** **Ukubuthelela nokuhlela izinto**	Kghona ukubuthelela, ukuhlela ngamananeko ukugwala, ukufunda nokujamisela, (tsenga) izinto ukuya ngakhunye okuphawulekako .
	5.2 **Ukujamisela ibuthelelo lezinto ezihleliweko**	
	5.3 **Ukucocisana nokuletha umbiko ngezinto ezisebuthelelweni elihleliweko.**	

TERM 4 MATHEMATICS GRADE R			
Iveke yama-31	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi.**
1.1 **Ukubala izinto**	• **Ukwethulwa kwehlathululo yenomboro yobu-** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni bu- 8. Ukubala uye phambili begodu uye emuva ukufika bu-8. Ukubala okungakahleleki ukusuka ku 1-10. **Ukwaziza/ ukwethula ukubala ngakubili kusetjenziswa umndunduzelo.** **Ukuqinisekisa ukubala ngeenomboro sikhundla.** Utitjhere upaka izinto ezi-4 ngereyi. Ukhomba enye nenye into ngesikhathi abala *kokuthoma, kwesibili, kwesithathu, kwesine.* **Ukuqinisekisa umqondo "wokunengi nowokumbadlwana"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla abu-8. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Iingoma nemidunduzelo yeenomboro. *Kubili,kune,sithandathu,bunane.,* *Indoda yinye ehegeni.* *Uthi uladelwe khulu;* *Kubili,kune,sithandathu,bunane*	Ilanga li-1
	Okuphathelene nokusikinyeka komzimba Vumela abafundi: - Babale amagadango abunane ngesikhathi bakhambakhamba ngeklasini. - Bonisa imino ebunane. Vumela abafundi: - Basebenzisa ileri yenomboro elele phasi (ethabaleleko) - Qinisekisa bonyana abafundi ngasosoke isikhathi bathoma ku-0 (lize) - Ukubona amatshwayo wenomboro ngesikhathi bakhamba phezu kwenambalayini. - Khamba phezulu kwengcenye enye nenye ngesikhathi kubalwa ngegido.	0 1 2 3 4 5 6 7 8 Isede yamafletjhikarada wamatshwayo weenomboro ukusuka keyo-1 ukufika keye-8	

Iveke yama-31	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi.**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukukhumbula amatshwayo weenomboro namagama weenomboro** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi: - Ukubala izinto ngeklasini ezifaka hlangana iinomboro kusukela keyo-1 ukufika keyo-8. - Bala izinto zokubala ukufika enomborweni yobu-8	Isede yezinto ezi-8 ngetlasini Izinto namkha izinto zokubala.	Ilanga li-1
	- Ukuthuthukisa ilemuko lobunjalo benomboro ngokungatjhuguluki nanyana ibekwe ngayiphi indlela, ngokuvumela abafundi bonayana bapake izinto zokubala ezibunane nga nanyana ngiziphi iindlela ezihlukahlukeneko isib  Lokha nakubalwako, inani lezinto alithintwa yisayizi yazo, namkha indawo namkha ngabe ngezomhlobo ofanako. Isibonelo: - Hlela iinkunubhe ezi-8 amapensela abu-8 amawupsi abu-8 abafundi ababu-8 njll. - Kubale ngeendlela zehlelo elihlukileko isib, zibale zirhatjhekile, zihlalelene, zisemudeni nofana ngehobhu. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi: - Ukudlala umdlalo ngokuhlobanisa inani lezinto zokubala negama lenomboro, itshwayo lenomboro amaqatjhazi begodu namakarada wesithombe afaka hlangana inomboro yobu-8. - Ukugadangisa inomboro yobu-8 ngekhrayoni.	Izinto zokubala ezi-8 namkha izinto ezi-8 Ifletjhikarada yetshwayo lenomboro negama lenomboro,amaqatjhazi neenthombe.isib:  Amakhrayoni Izinto zokubala.	

Iveke yama-31	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi.**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Ukusebenzisa inomboro bu-8 ebujameni obujayelekileko** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni bu- 8. Ukubala uye phambili begodu uye emuva ukufika bu-8. **Ukuqinisa ukubala ngakubili kusetjenziswa umdunduzelo wenomboro.** **Ukuqinisekisa umqondo "wokunengi" na "mbadlwana" .** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla abu-8. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Iingoma nemidunduzelo yeenomboro	Ilanga li-1
	Okuphathelene nokusikinyeka komzimba. Vumela abafundi: - Kwenza inomboro yobu-8 ngemino yabo. - Babumbe/ bakhe inomboro ngeentokana zentambo nofana iderhe yokudlala. - Ukutlola amashwayo wenomboro ngethreyini yesanda. - Beka amakarada wetshwayo lenomboro amakhulu phasi ngokulandelana ukufika kwelobu-8.	Intambo/lwulu namkha iderhe yokudlala. Ithreyi enesanda Isede yamakarada amakhulu wamatshwayo weenomboro.	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Utitjhere unikela umfundi ngamunye iimbhontjisi ezi-8 nefletjhikarada elinamaqatjhazi abu-8 phezu kwalo. Vumela abafundi: - Bapake ibhontjisi phezulu kelinye nelinye iqatjhazi lefletjhikarada. - Bala iimbhontjisi. - Hlobanisa fletjhikarada lamaqatjhazi nefletjhikarada legama lenomboro nezinto zokubala.	Amabhontjisi abu-8 umfundi ngamunye. Ifletjhikarada yeqatjhazi.igama lefletjhikarada nezinto zokubala. Setshwantsho sa dintho tse 8 **Bunane**	

Iveke yama-31	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi.**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula, ukubona begodu nokunikela igama lezinto zobujamo obusobubili ngeklasini kunye neenthombeni.** - **uncamane** • **Ukwethula uncamane.** **Okuphathelene nokusikinyeka komzimba.** Vumela abafundi bathole/bona: - Babumbe amajamo ngemizimba yabo isib. Abafundi abasi-6 babumba uncamane ngemizimba yabo. - Ukwenza uncamane basebenzisa imino yabo. - Ukwenza/ukubumba uncamane ngeengcezu zewulu nofana iderhe yokudlala. - Khambe magega nobujamo bakancamane. Ngesikhathi abafundi nabakhambako bathi “Ngikhamba magega noncamane-ihlangothi linye elide, ihlangothi linye elifitjhani, elinye godu ihlangothi elide, nelinye godu ihlangothi elifitjhani. - Thinta ubujamo. Sebenzisa ubujamo obukhulu nofana faka amabumbeko wobujamo ahlukahlukeneko emgodleni ophethe izinto okufanele umfundi afunisele ngokuzwa/ ngokuthinta bonyana ubambe ini(isikhwama setjhila esinerege phezulu) Yiba namakarada wamasede ametjha nobujamo obugwale phezu kwawo. Umfundi “uthinta”ubujamo obungesikhwameni begodu abumetjhise namakarada. - Gwala ubujamo bakancamane emoyeni, phasi/eflurwini (ngetjhogo) begodu ekugcineni ephepheni .	Imidlalo yamakarada athuthukisa ukubona amajamo. Iwulu namkha iderhe yokudlala. umgodlana ophethe izinto okufanele umfundi afunisele ngokuzwa/ngokuthinta bonyana ubambe ini(isikhwama setjhila esinerege phezulu) onamajamo ahlukeneko weJiyometri. Ukukhambelanisa isede yamakarada enamajamo agwalwe phezu kwawo. Iphepha le-A4 namakhrayoni.	Ilanga li-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Vumela abafundi bafune izinto ezinguncamane ezingetlasini. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Ukubona amabumbeko waboncamane eenthombeni. - Ukubona woke amabumbeko azisiweko/ athuliweko bekube ngalesi sikhathi eenthombeni. **Hlela izinto ezibusontathu (3-D) namajamo abusobubili ukuya ngesayizi, umbala, nobujamo** - Hlela izinto ezibuthelelweko ngokuya ngamasayizi, umbala, begodu nobujamo.	Izinto eziboncamane ngetlasini. Woke amajamo afundiweko ukufika gadesi. Iinthombe ezihlukeneko ezinamajamo kizo. 	

Iveke yama-31	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi.**
5.1 **Ukubuthelela nokuhlela izinto ngemihlobo**	• **Ukuqinisa umqondo wokuphatha idathangokubuthelela izinto ngetlasini namkha ebhodulukweni ukuya ngamatshwayo abekiweko. Isibonelo Amalanga wamabeletho wabafundi.** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** **Buthelela begodu uhlele idatha** - Ngokusebenzisa itjhadi lamalanga wamabeletho, thola bona malanga wabobani wamabeletho angayiphi inyaga. - Abafundi barhelebha ngokwenza igrafu ukubona bonyana kungayiphi inyanga yomnyaka lapha kwaba namalanga wamabeletho amanengi khulu. - Utitjhere ugwala igrafu yeenyanga ezi-12 zonyaka. - Ngerhelebho lakatitjhere, abafundi babeka/baplota igrafu ngokuya ngesikhundla senye nenye inyanga yamabeletho yomunye nomunye umfundi.	**Itjhadi lamalanga wamabeletho.**  	
5.2 **Ukujamiselela ibuthelelo lezinto elihlelekileko**		Ikarada elinamabizo wabafundi phezukwalo. Gwala amakholomu ali-12 phezu komtletle omkhulu wephepha. Tjengisa ngegama lekarada bona kungaziphi iinyanga lapho abafundi bagidinga khona amalanga wamabeletho. Sebenzisa ± 3 amaphepha wokhulu be A 2 anamakholomu ali-12 agwalwe phezu kwawo.	
5.3 **Coca bewubike ngokuhlelwa kwezinto ezibuthelelweko**	Abafundi bacoca ngeemphetho ezilandelako: - UTjhirhweni unamalanga wamabeletho amanengi. Abafundi abane bagidinga amalanga wabo wamabeletho ngoTjhirhweni. - Alikho ilanga lamabeletho eligidingiweko ngoNtaka. Kunenyanga yi-1 kwaphela lapho kungagidingwa khona ilanga lamabeletho. - Ezinye iinyanga zinenani elilinganako lamalanga wamabeletho njll. Ngiziphi iinyanga lezo?		

Tjh	Mhl	Nt	Sihlab	Mrh	Jun	Vhl
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 begodu bebatlole inani lamalanga wamabeletho ngaphasi kwenye nenye inyanga.
- Abafundi bamadanisa inomboro yamalanga wamabeletho eenyangeni ezihlukahlukeneko.

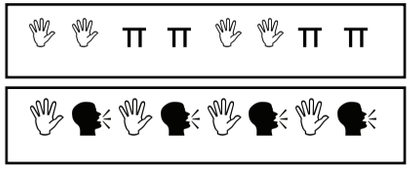
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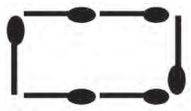
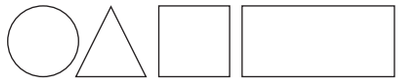
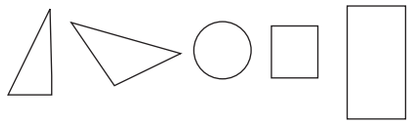
- Ngiyiphi inyanga enamalanga wamabeletho amanengi khulu kunamanye?
- Ngiyiphi inyanga enamalanga wamabeletho ambadlwana khulu?”
- Ngiziphi iinyanga ezinamalanga wamabeletho alinganako.
- Ngiyiphi inyanga enabesana abanengi abagidinga amalanga wabo wamabeletho.
- Ngiyiphi inyanga enabentazana abanengi abagidinga amalanga wabo wamabeletho.

Iveke yama-32	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako.**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elifunyenwe evekeni yama 31 elifaka hlangana inomboro yobu-8.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni bu- 8. Ukubala uye phambili begodu uye emuva ukufika bu-8. Ukubala okungakahleleki ukusuka ku 1-10. **Ukuqinisekisa ukubala ngakubili ngokusebenzisa imidunduzelo yeenomboro** **Ukuqinisekisa umqondo "wokunengi" na "mbadlwana" .** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla abu-8. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe kunengi /kuncani .	Iingoma nemidunduzelo yeenomboro	Ilanga li-1
	Okuphathelene nokusikinyeka komzimba Asidlaleni umdlalo. - Utitjhere udlala isibetho isib isigubhu. - Abafundi bayakhambakhamba. - Lokha isigubhu nasithulako, utitjhere ubizela phezulu inomboro ehlangana neyoku -1 neyobu-8 begodu abafundi bazihlukanisa ngeenqhema ezincani isib;Utitjhere ubizela phezulu inomboro yobu-8 begodu abafundi bazihlukanisa ngeenqhema ezinamalunga abu-8. - Khombisa imino ebu-8 ngezandla zakho zombili. - Yenza / yakha amasede ngabafundi.Gwala iindulungu ezikulu esandeni.Vumela abafundi bakhe iinqhema zamalunga abu-8 ngaphakathi kweendulungu. Iinqhema zabafundi abamalunga abu-8 bangenza eminye imisebenzi baboke ngokukhamba kwelanga isib. ukudlala ekhoneni lamabhlogo; ukuya endaweni yobuKghwari nokhunye.	Isigubhu	

Iveke yama-32	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako.**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi uku: - Sebenzisa izinto zokubala ukubona bona ngiyiphi inomboro eza ngaphambi kweyo-8 begodu emva kweyesi-5? Ngiyiphi inomboro ehlangana neyesi-6 neyobu-8? - Bala izinto ngazimbili, (ngakubili): o Ipara yamanyathelo, o Ipara yamakowusu, o Ipara yamehlo, o Ipara yamacici. o Ipara yeendlebe, o Ipara yemilenze. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Lokha utitjhere nakathatha irejista yokuza esikolweni ubuza abafundi: “Ngabe umfundi ohlala enomborweni yendlu namkha esiphandeni…… ukhona la? Umfundi uzokuphendula ngokutjengisa ukuthi ukhona”. - Buyelela ngelanga elilandelako ngokusebenzisa iinomboro zomtato namkha iinomboro zakamaliledinini.	Izinto zokubala Ipara yamanyathelo,yamakowusu, yamacici Amakarada aneenomboro zemitato neemphande zabafundi.	

Iveke yama-32	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako.**	**Isilinganiso sesikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ngokukhuluma kurarululwa imiraro yamagama (iimbalo zeendatjana)ezifaka hlangana inomboro bu-8** **Okuphathelene nokusikinyeka komzimba** - Utitjhere urhelebha abafundi ukwenza iinqhema zabafundi zamalunga asi-6 begodu nesinye isiqhema sabafundi abamalunga ama-2. - Hlanganisa iinqhema ezimbili ukwenza isiqhema sinye. - Buza abafundi bona bangaki abafundi abasesiqhemeni esihlanganisiweko: isi-6 naku-2 → 8.(Utitjhere uthi: 6 naku 2 kukunikela 8) - Buthelela abafundi ababu-8. Khupha abafundi aba-3 bbabe siqhema esincani. Banagaki abafundi abasele esiqhemeni esikhulu? Bu-8 khupha 3 → 5. - Khetha abafundi ababili ngokusebenzisa umdunduzelo wokubala.. - Beka amaqwatjhi ama-4 esandleni somfundi oyedwa begodu ubeke amaqwatjhi ama-4 ngakwesinye isandla somfundi. Mangaki amaqwatijhi nasele awoke? 4 hlanganisa na-4 → 8. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Nikela umfundi ngamunye amaqwatjhi abu-8. - UTshidi unamaqwatjhi asi-6 begodu umnganakhe unamaqwatjhi ama-2..Mangangaki amaqwatjhi abanawo nasele awoke? Isi-6 hlanganisa naku-2 → 8. - UMonika unamaqwatjhi abu-8. Ulahlekelwa maqwatjhi amabili. Mangaki amaqwatjhi uMonika asele nawo? Bu-8 khupha ku-2 kwenza 6. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere ubeka iinthombe ezimbili phezu kwebhorodo yeflaneli. Utitjhere ungeza ngezinye iinthombe ezi-5. Zingaki iinthombe esele zilapho kwanje? Ku-2 uhlanganisa naku-5 → 7. - Beka amabumbeko abu-8 phezu kwebhorodo yeflaneli. Khupha ku-5. Zingaki eziseleko? **8 khupha 5 → 3.**	Iinqhema zabafundi Amaqwatjhi Imidunduzelo yokubala Amaqwatjhi Imidunduzelo: 1, 2, 3, 4, 5 Lokha nangibamba ifesi iphila. 6, 7, 8, 9, 10 Ngayilisa yakhamba. Amaqwatjhi Iinthombe/amajamo aphezu kweflaneli bhodi	Ilanga li-1

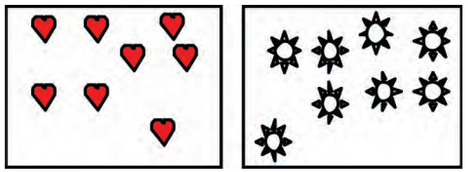
Iveke yama-32	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako.**	**Isilinganiso sesikhathi**
2.1 **Amaphetheni weJiyomethri**	• **Ukukopulula begodu ungezelele amaphetheni azwakalako.** **Okuphathelene nokusikinyeka komzimba.** Abafundi basikinyeka ukulandela ibetho lomvumo ngemizimba yabo isib. - Gadanga, gadanga, yeqayeqa, yeqayeqa. - Yeqa ngenyawo linye, Yeqa ngenyawo linye, Yeqa ngenyawo linye. Yeqa ngeenyawo ezimbili,yeqa Ngeenyawo ezimbili..... **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Hlanganisa nomvumo kwezobuKghwari Bokwenza emaKghonweni wePilo. Abafundi basikinyeka ukulandela ibetho lomvumo ngezandla zabo kwaphela begodu bakghwathe iinyonga zabo.isib: - Wahla, wahla, thwahlaza, thwahlaza,(wahla izandla begodu ubethe izandla phezu kwamathanga.) - Utitjhere wenza amakarada wegido begodu abafundi bayalibuyelela igido ngokuwahla izandla. (basebenzisa izandla ukuwahla begodu neenyawo ukugadanga.) isib:  - Wahla, wahla, gadanga, gadanga..... - Wahla, rhuwelela, Wahla, rhuwelela.....	Isidlali ma-CD Ngomvumo Igido elikhambelanako lomzimba.	Ilanga li-1

Iveke yama-32	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako.**	**Isilinganiso sesikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula , ukubona nokuhlathulula ubujamo baka (2-D) ngetlasini** • **Ukuqinisa ilwazi lakancamane.** **Okuphathelene nokusikinyeka komzimba.** Vumela abafundi uku: - Yenza/bumba amajamo ngemizimba yenu isib: abafundi aba-4 babumbe uncamane ngemizimba yabo. - Babumbe uncamane ngemino yabo. - Babumbe uncamane ngokusebenzisa iinthoro zomlilo ezisi-6.  - Yenza/bumba uncamane ngeentokana zewulu namkha ngederhe yokudlala. - Khamba ngemaqadi kwebunjo lakancamane. - Zwelela amajamo. Beka/ faka amajamo ahlukeneko ngaphakathi komgodlana ophethe izinto okufanele umfundi afunisele ngokuzwa/ngokuthinta bonyana ubambe ini (isikhwama setjhila esinerege phezulu).Thola amakarada akhambelanako ngamajamo agwalwe phezu kwawo. Umfundi uzwelela amajamo angemgodleni begodu amadanise ijamo nekarada. - Gwala ijamo lakancamane emoyeni, esandeni, ifluru/phasi begodu ekugcineni ephepheni.	Ikarada lemidlalo ethuthukisa ukubona amajamo. Iingojwana zomlilo. Iwula namkha iderhe yokudlala. umgodlana ophethe izinto okufanele umfundi afunisele ngokuzwa/ngokuthinta bonyana ubambe ini (isikhwama setjhila esinerege phezulu)esinamajamo ahlukeneko weJiyometri.  Faka amajamo amakhulu namancani begodu naboncantathu bama-engeli ahlukeneko angaphakathi komgodlana ophethe izinto okufanele umfundi afunisele ngokuzwa/ngokuthinta bonyana ubambe ini (isikhwama setjhila esinerege phezulu)isib.  Isede yamakarada akhambelana najamo agwaliweko phezu kwawo. Iphepha le-A4 begodu amakhrayoni.	Ilanga li-1

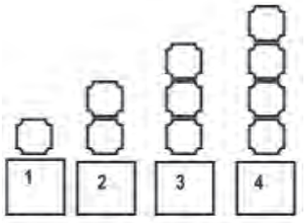
Iveke yama-32	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako.**	**Isilinganiso sesikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Vumela abafundi ukufuna izinto eziboncamane ngeklasini. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Dlala umdlalo: Ngiyiphi etjhodako? - Beka inani lezinto zobujamo obubusobubili (ingasi zinengi kunamajamo ama-5) phezu kwesitokana sephepha phakathi komada isib. amajamo asuka “emdlalweni wamajamo weLogi”. - Cocisananani nabafundi ngejamo ngalinye. - Nikela abafundi ithuba lokukhumbula ngehloko umhlobo wamajamo asesitokaneni sephepha. - Abafundi bavala amehlo wabo. - Utitjhere utjhidisa linye lamajamo. - Abafundi kufanele bavule amehla wabo begodu babone bona ngiliphi ijamo elitjhodako. - Buyelela ikambiso. - Thuthukisa ituthuko yamajamo weJiyometri ngokunikela amakarada wemidlalo ahlukeneko afana ”Yini engaphakathi kwesikwere?” namkha eminye imidlalo ekhona.	Izinto eziboncamane ngeklasini Amajamo ahlukeneko isib: ijamo lelogi.	Ilanga li-1

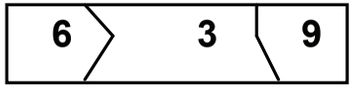
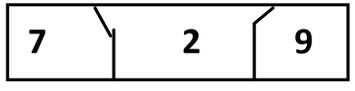
Iveke yama-32	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako.**	**Isilinganiso sesikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	**Ukuhlathulula ubujamo bezinto ezimbili nofana ngaphezulu ezibusobuthathu (3-D) mayelana nenye kwenyenye .** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi uku: - Jama hlangana nezinto ezimbili namkha abafundi ababili. - Jama eduze nomntazana ombethe irogo elihlaza kwesibhakabhaka. - Jama eduze nomsana ombethe amapatlagwana anzotho. - Khamba hlangana namabhoksi. - Khasa mazombe netafula. - Khasa ngaphasi kwesitulo. - Beka isitulo ngaphambi kwakho. - Beka isitulo ngemva kwakho. - Jama phezu kwesitulo sakho. - Hlala phasi eflurwini. - Beka isitulo phezu kwakho. - Beka isitulo hlanu kwakho. - Beka isitulo ehlangothini lakho langesinceleni/langakwesokudla.	Iintulo ezimbili.	Ilanga li-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Vumela abafundi bazalise amaphazeli ngeenthombe zabantu namkha iinlwana. - Phulela imincamo ukuya ngemiyalo enikelwa ngutitjhere isib: phulela umncamo obovu. Faka umncamo ohlaza kotjani eduze nomcamo obovu. njll - Phulela imincamo ukuya ngesithombe sokulamanako esinikelweko. **Sebenza ngeenqhema ezincani.** Utitjhere unikela umfundi ngamunye iphegibhodi begodu namaphegsi azele isandla. Nikela imiyalo elandelako: - Faka amaphegsi amabili abovu ekhoneni eliphezulu langesandleni sesincele. - Faka ipheksi elihlaza kotjani ngehlangothini langesokudla lephegsi elibovu. - Faka iphegsi elihlaza kwesibhakabhaka ngaphasi kwephegsi elihlaza kotjani nokhunye.	Amaphazeli Imincamo ephulelwe. Iphegibhodi kunye namapheksi. 	
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Gwala abantu namkha iinlwana ezinganamikhono namkha imilenze begodu ubawe abafundi bazalise umgwalo.	Iphepha lokusebenzela elinemigwalo.	

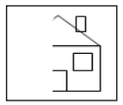
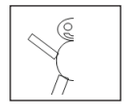
Iveke 33	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elifunyenwe evekeni yama 31 begodu no 32 elifaka hlangana iinomboro 1 ukuya kubu-8.** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni bu- 8. Ukubala uye phambili begodu uye emuva ukufika bu-8. Ukubala okungakahleleki ukusuka ku 1-10. **Ukuqinisa ukubala ngakubili usebenzisa imidunduzelo yeenomboro** **Qinisa ukubala ngeenomboro sikhundla:** Utitjhere upakela izinto ezibu-8 ereyini. Ukhomba entweni ngayinye lokha nakabala *kokuthoma, kwesibili, kwesithathu, kwesine, kwesihlanu.* **Qinisa umqondo "wakonengi nambadlwana"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla abu- 8. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Iingoma zeenomboro nemidunduzelo	Ilanga li 1
	Okuphathelene nokusikinyeka komzimba - Abafundi basebenzisa imizimba yabo ukwenza amatshwayo weenomboro. - Utitjhere wenza iinomboro ngemethiriyeli ehlukeneko leya abafundi abagayithinta isib. Isaniphepha, intambo / idaka. - Yitjho imidunduzelo neengoma zeenomboro.	Amatshwayo amakhulu weenomboro enziwe ngesaniphepha	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Sebenzisa izinto eziphathekako njengamabhlogo neembandana zeplastiki. - Zibale, uzihlele, beka ezibunane ereyini njll. Hlukanisa abafundi ngeenqhema. Beka iwobhu yeembandana zeplastiki zeplasini phakathi kwesiqhema ngasinye. Vumela abafundi bonyana ba: - Sebenze ngababili esiqhemeni nifunisele bonyana ziimbandana ezingaki ezingewobhini. - Ipara ngayinye ithatha ikarada lenomboro ukumadanisa ukufunisela kwabo. - Bala inani lamambala leembandana. - Ipara ngayinye ingathola ikwekwezi esiphongweni. - Buyelela ngokubeka inomboro ehlukileko yeembandana ekabeni yemada.	Amabhlogo neembandana zeplastiki Iimbandana ezi -9 zeplastiki zeplasini Amasede ambadlwana wamakarada wetshwayo lenomboro. Iinkwekwezi zokuthokozisa	

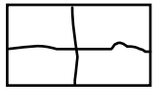
Iveke 33	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	**Ukukhumbula nokubona amatshwayo weenomboro namagama weenomboro afaka hlangana iinomboro ukusuka kweyo 1 ukuya kweyo - 8** **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Madanisa amatshwayo weenomboro neenthombe ekungizo. - Umfundi kufuze azwisise bonyana isiqhema sezinto singaphatha inani elilinganko lezinto.  - Abafundi kufuze bakhombe into ngayinye lokha nababalako. - Abafundi kufuze bakghone ukumadanisa into enye kwenye isib. Ihliziyo yinye elangeni linye. - Metjhisa amafletjhi karada wesithombe, amafletjhi karada wamqatjhazi, itshwayo lenomboro negama lenomboro ngenani elifanako lezinto zokubala.	Isithombe namafletjhi karada wetshwayo lenomboro Izinto zokubala  Isede yamakarada weenomboro efaka hlangana iinomboro ku - 1 ukuya kweyo – 8	

Iveke 33	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Ukuhlela begodu nokumadanisa ibuthelelo lezinto usebenzise "okunengi kuna/okuncani kuna ukufika enomborweni yobu – 8** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni bu- 8. Ukubala uye phambili begodu uye emuva ukufika bu-8. **Ukuqinisa ukubala ngakubili usebenzisa imidunduzelo yeenomboro** **Qinisa umqondo waka "nengi nambadlwana"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla abu- 8. **Okuphathelene nokusikinyeka komzimba** - Utitjhere ubeka amabhlogo abu – 8 phezu kwetafula. Ngaphandle kokubala abafundi kufuze balinganise (ukufunisela) inani lamabhlogo. - Utitjhere uyabuza: o "Kunamabhlogo amanengi kunamathathu na?" o Abafundi bahlola iimpendulo zabo ngokubala amabhlogo." o "Ukufunisela kwakho bekuseduze kangangani?" **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Yenza isiqhema sabafundi abane. Nikela isiqhema ngasinye izinto zokubala ezi -8 nekhasi elineendulungu ezikulu ezimbili ezigwalwe kilo. Biza iindulungu ngeendleke. - Ngeenyalelo zakatitjhere abafundi babeka izinto zokubala esidlekeni ngasinye begodu batjho bonyana zingaki. - Abafundi bamadanisa "iindleke" begodu batjho bonyana ngisiphi isidleke esinenani lezinto zokubala "ezinengi kuna", "ezincani kuna", ezifanako nofana "ezinenani elilinganako".	Iingoma zeenomboro nemidunduzelo Amabhlogo Izinto zokubala Ikhasi le-A4 eligwale "iindleke" ezimbili 	Ilanga li 1

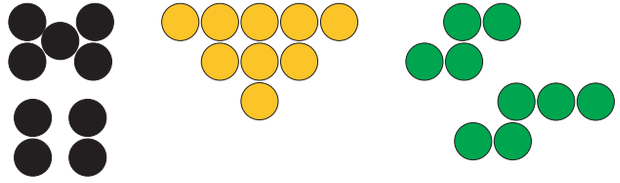
Iveke 33	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	Hlukanisa abafundi ngeenqhema - Nikela isiqhema ngasinye amayunifiksi amanengi nesede yamakarada wetshwayo lenomboro afaka hlangana iinomboro ukusuka kwe 1 ukuya kwezi -8 - iinqhema azakhe imibhotjhongo zilebule omunye nomunye umbhotjhongo ngeenomboro yamakhyubhu asetjenzisiweko ukuwakha isib.  **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere utjengisa amakarada amabili anenani elihlukahlukeneko lamaqatjhazi neenthombe kiwo. - Abafundi abamadanise amakarada aneenthombe namaqatjhazi ukubona “okunengi kuna” “okuncani kuna” nokulingana na”.	Amakhyubhu wamayunifiksi Amakarada wetshwayo lenomboro ukusuka kwe 1 ukuya kweyo – 8 amafletjhi karada weqatjhazi nesithombe. **Isithombe sezinto ezi-8** 	Ilanga li 1
1.13 **Ukuhlanganisa nokukhupha**	**Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni bu- 8. Ukubala uye phambili begodu uye emuva ukufika bu-8. **Qinisa umqondo “wakonengi nambadlwana”** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana Utitjhere uwahla izandla zakhe amahlandla asi 8. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Iingoma zeenomboro nemidunduzelo	Ilanga li 1

Iveke 33	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
1.13 **Ukuhlanganisa nokukhupha**	**Okuphathelene nokusikinyeka komzimba** Iimbonelo: 1. Utitjhere ubizela abafundi aba -3 ngaphambili. Abafundi bayababala. Utitjhere ubiza abanye godu aba 2 begodu abuze bonyana: “Bafundi abangaki nasele baboke?” Ku -3 naku 2 → 5. (utitjhere uthi: ku - 3 naku - 2 kwenza → 5) 2. Utitjhere upakela iintulo ezimbili. Ufaka ezinye ezi 2. Zingaki iintulo ezikhona njenganje? Ku - 2 naku 2 → 4. 3. Utitjhere uphakamisa isandla sinye. Begodu utjho bonyana: “Bala imino yami. Nangifihla uthubhakghuru, mingaki imino oyibonako? Ku - 5 ukhupha ku-1 → 4. 4. Abafundi ababale imino esandleni sinye sabo. Fihla uthubhakghuru wakho; mingaki imino oyibonako? ku 5 ukhupha ku 1 → 4. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Abafundi abapakebakhuphe izinto zokubala ezisi – 6 begodu benze okulandelako: - Utitjhere unikela umfundi ngamunye izinto zokubala ezisi – 6. Utitjhere unikela iinyalelo abafundi baphendule isib. Pakela izinto zokubala ezi -2, faka ezinye ezi – 3. Zingaki nasele zizoke. Ku - 2 naku 3 → 5. - Bala izinto zokubala ezine. Bala uye phambili ngaku-2 ukusuka kweye -4. Unazingaki njenganje? Ku -4 naku 2 → 6. - Bala zoke izinto zokubala onazo. Nawuvala izinto zokubala ezimbili ngesandla sakho, ubona izinto zokubala ezingaki? Isi- 6 ukhupha ku-2 → 4. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Yenza amaphezeli weenomboro begodu uvumele abafundi ukuhlola ngamaphezeli.  	Izinto ne/nofana izinto zokubala Amaphezeli weenomboro	

Iveke 33	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula ukubona nokuhlathulula amajamo wobusobubili 2-D eenthombeni** **Umqondo ophathelene nomcabango** • Ubona ingcenye kokuzeleko **Okuphathelene nokusikinyeka komzimba** Utitjhere uhlathulula into abuze abafundi bonyana khuyini isib. - "Ngicabanga ngento ebomvu, enamavilo amane, iminyango emine namafesdere angakghona ukuvuleka begodu yenze netjhada elithi " vum vum" Umsebenzi lo ungenziwa'ngeenqhema itkjhugululwe yenziwe iphaliswano – isiqhema sinye sifuze sihlathulule, esinye isiqhema kufuze sifunisele bonyana yinto bani. - Hlathulula umuntu begodu ubawe abafundi kobanyana bathole umuntu loyo. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Bonisa umfundi isithombe umlise asiqale. Bese uyasithatha ubawe umfundi bonyana ahlathulule koke lokhu asakukhumbulako. - Thatha iinthombe ezikhamba ngazinye uqunte iingcenye zazo. Beka iinthombe neengcenye ebhoksini begodu ubawe abafundi bonyana baqale iingcenye ezingekho zesinye nesinye isithombe abasifumanako /abasidobhako. - Gwala iinthombe ezingakapheleli esiquntwini sephepha begodu ubawe abafundi bonyana bazalise isithombe.	Esinye nesinye isithombe Iinthombe ezineengcenye eziquntiweko Umgwalo ongakapheleliko  	Ilanga li 1

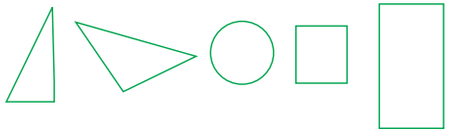
Iveke 33	Isikhathi sokufunda esiphakanyisiweko: Umsebenzi wangetlasini owodwa ohleliweko okhokhelwa ngutitjhere (indulungu) ya ± 30 imizuzu ngelanga (± 5 imisetjenzana yeembalo ngeveke)		
Iinhloko	**Amanothi atlhadlululako**	**Iinsetjenziswa eziphakanyisiweko**	**Ukulinganisa ubude besikhathi**
3.4 **Isimethri**	• **Ukuthuthukisa ilemuko lokobanyana umzimba womuntu unamahlangothi amabili langesinceleni nelangesidleni angakghona ukuzikhambela ngokwawo** **Okuphathelene nokusikinyeka komzimba** - Faka iregere esihlakaleni sangesidleni saloyo naloyo mfundi. - Vuma ingoma yomsikinyeko: " ngifaka inyawo lami langesinceleni" Vumela abafundi bonyana ba: - Babeka isandla sokudla eenhlokweni zabo. - Bathinta idololabo langesinceleni ngendololwane yabo yangesidleni. - Bathinta ihlombe labo langesidleni ngesandla sabo sangesinceleni njll.	Iingoma zemisikinyeko/zemidunduzelo isib. "Ngifaka inyawo lesincele"	Ilanga li 1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Nikela umfundi ngamunye ibhlogo lokwakha Abafundi abahlale emadeni begodu ba: - Beka ibhlogo ehlangothini labo langesidleni/langesinceleni. - Ngehlombe labo langesidleni/ngesinceleni. - Edolweni labo langesinceleni/langesidleni. - Enyawo labo langesinceleni/langesindleni njll.	Ibhlogo lomfundi ngamunye	
3.1 **Ubujamo, ukujayeza nokubukela**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Umfundi ngamunye uthola iphepha nekhrayoni. - Abafundi abagwale umuda ekabeni yephepha ukusuka phezulu ukuya phasi begodu nomunye umuda ekabeni ukusuka ngesinceleni ukuya ngesidleni - Utitjhere unikela iinyalelo: o Beka umuno wakho ekabeni yesiphambano. o Gwala indulungu ebhlogweni eliphezulu ngesinceleni. o Gwala uncantathu ebhlogweni elingenzasi ngesidleni. o Gwala isikwere ebhlogweni eliphezulu ngesidleni. o Gwala uncamane ebhlogweni elingenzasi ngesinceleni. - Cocisanani ngephostara yesithombe. Abafundi baphendula imibuzo ezabenza bakghone ukuhlathulula (ngaphandle kokutjengisa) ubujamo bezinto esithombeni.	Iphepha 	

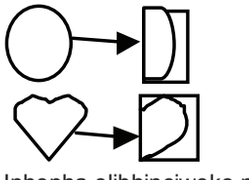
Iveke yama-34	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Ukwethulwa kwehlathululo yenomboro li-9** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni bu- 9. Ukubala uye phambili begodu uye emuva ukufika bu-9. Ukuqinisa ukubala ngakubili ngokusebenzisa imdunduzelo yeenomboro **Ukuqinisa ukubala ngeenomboro sikhundla** Utitjhere upaka izinto zokubala ezisi-6 ngereyi. Ukhomba entweni ngayinye lokha nakabala *kokuthoma, kwesibili, kwesithathu, kwesine, kwesihlanu* , *kwesithandathu*. **Qinisa imiqondo "yokunengi" kunye "nokumbalwa"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla ali-9. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu. **Okuphathelene nokusikinyeka komzimba** Vumela abafundi: - Bala ukufika kuli-9 lokha ukhwela amastepisi. - Gwala inomboro ye-9 esandeni/eflurini/phasi bese ukhambe phezu kwayo. - Wahla izandla amahlandla ali-9. - Ukukhumbula iinomboro ukusuka keyo-1 ukufika keye-9 ngesede wamatshwayo weenomboro amakhulu. - Sebenzisa imibono yakho ukuvumela abafundi ilemuko lehlathululo yenomboro ye-9 ngemizimba yabo.	Iingoma nemidunduzelo yeenomboro Isede yamatshwayo weenomboro amakhulu.	Amalanga ama-2

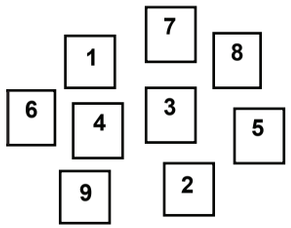
Iveke yama-34	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.6 **Amathekiniki wokurarulula imiraro**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Utitjhere wenza inambalayini nofana ileri eflurwini/phasi. - Utitjhere unikela iinlayelo ezifana no: - Ngasosoke isikhathi jama phezulu kwe-0 nofana thoma phezu kwe-0. - Ngasososke isikhathi bala lokha ukhambako. - Khamba ufike enomborweni yesi-5 , Buyela emuva enomborweni ye-2. Khamba uye phambili ukufika enomborweni yobu-8. - Khamba udlulele enomborweni yobu-8 Khamba ngenomboro yinye uye phambili,buyela iinomboro ezi-2 ukubuyela emva. - Kuza ubani ngemva kweenomboro yesi -3? - Ngiyiphi inomboro eza ngemva kwenomboro ye-7 - Ukuthuthukisa ilemuko lobunjalo benomboro ngokungatjhuguluki nanyana ibekwe ngayiphi indlela, ngokuvumela abafundi bonayana bapake izinto zokubala ezilithoba ngananyana ngiziphi iindlela ezihlukahlukeneko isib;  Lokha nakubalwako, inani lezinto alithintwa yisayizi yazo, namkha indawo namkha ngabe ngezomhlobo ofanako. Isibonelo - Hlela iinkunubhe ezili-9, amapensela ali-9, amawubhu ali-9, abafundi aba-9 njll. - Zibale ngeendlela ezihlukeneko Isib: Zibale zirhatjhekile, zibuthelelwe, zisemjejeni nofana zipakiwe. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Sebenzisa inomboro ye-9 ebujameni obujayelekileko. Vumela abafundi: - Ukumetjha amafletjhi karada weenthombe nenani elilinganako lamathosi. Paka inani lezinto zokubala elilingana nawo.	Ilere yeenomboro 0 1 2 3 4 5 6 7 8 9	

Iveke yama-34	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	• **Ukukhumbula amatshwayo weenomboro begodu negama lenomboro.** **Okuphathelene nokusikinyeka komzimba.** - Beka izinto ezi-5 ereyini. - Vumela abafundi baziqalisise kuhle izinto lezo. - Abafundi baqala eqadi bese utitjhere ususa into eyodwa. - Abafundi kufanele batjho bona ngiyiphi into esusiweko. - Buyisela izinto bese ubuyelela iinkhathi ezimbalwa bese uragele ekususeni ezi-2 nofana izinto ezinengi. Vumela abafundi: - Bakhetha itshwayo lenomboro ye-9 negama lenomboro hlangana namanye amafletjhikarada. - Beka amafletjhikarada weamashwayo weenomboro eflurwini ngehlelo lokulandelana kweenomboro okufaneleko. - Beka amafletjhikarada anamatshwayo wenomboro ngendlela yokuwarhatjha.. Hlukanisa abafundi babe ziinqhema ezincani.Utitjhere unikela isiqhema ngasinye isede yamakarada anamatshwayo weenomboro. Nikela abafundi iinlayelo.isib; - Thinta inomboro ye-4, beka indololwana yakho enomborweni yobu-8, hlala phezulu kwenomboro yesi -3 gijima uzungeleze inomboro ye-5 amahlandla amahlanu njll. - Dlalani umdlalo ngokuhlobanisa inani lezinto zokubala negama lenomboro , itshwayo lenomboro. amaqatjhazi namakarada weenthombe. - Qinisekisa bonyana itshwayo lenomboro negama lenomboro lihlanganiswa ngasosoke isikhathi lilingana/likhambisana nezinto.	Izinto ezi-5 (ukucabanga okubonakalako) Izinto zokubala  Amasede ambalwa wamakarada weenomboro ezifaka hlangana inomboro yoku-1 ukufika keye-9.  Ifletjhikarada enamatshwayo weenomboro namagama weenomboro, amaqatjhazi, neenthombe isib..  Izinto zokubala	

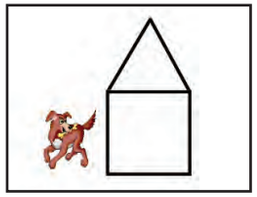
Iveke yama-34	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	**Landela ikombatjhuba ukuzitjhidisa namkha ukuzibeka endaweni ethileko** **• Ukuthuthukisa umqondo wekombatjhuba.** **Okuphathelene nokusikinyeka komzimba.** - Gwala uncntathu omkhulu, nofana isikwere phasi nofana eflurwini. - Abafundi bakhamba eduze kobujamo batjho ngokuphimisela bonyana bajikela ngesinceleni nofana ngesidleni bebatjengise nangezandla zabo. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Gwala uncantathu omkhulu nofana isikwere ephepheni bese uyibeke eflurwini . Vumela abafundi: - Tjhova ikoloyi yokudlala magega nemida.. - Abanye abafundi balulela izandla zabo sangesinceleni namkha sangesidleni ehlangothini elifanako begodu batjho bona *ngesinceleni* namkha *ngakwesokudla*. Vumela abafundi: - Bahlathulula izinto ezisebujameni obuhlukahlukeneko Isib: unompopi (ngemuva / ngaphambili) indlu (ngemuva /ngaphambili) ilingemuva / ngaphambili lesikolo, ikoloyi (ingemuva/ngaphambili) ukuya ngokuthi ujame kuphi? - Abafundi bahlathulula lokho abakubonako.isib. nangabe kunomuthi phambi kwendlu bahlathulula indawo/ubujamo bomuthi. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Vumela abafundi balemuke umnqopho wokuyaphambili/nemuva ngokukhomba iinthombe zeenkombatjhuba.	Amajamo amakhulu agwaliweko phezu kwephepha lokusebenzela. Ikoloyi yokudlala Unompopi. Indlu yamambala. Ikoloyi Iinthombe ezitjengisa kuhle ikombatjhuba isib; ihlangothi ikoloyi etjhinga kilo. ihlangothi umuntu akhamba atjhinga kilo.	Ilanga li-1

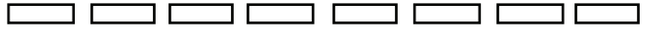
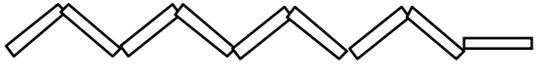
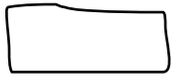
Iveke yama-34	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula , ukubona begodu nokutjho amajamo abusobubili (2-D) ngetlasini neenthombeni begodu bazihlele kuhle.** **• Ukuqinisa ilwazi leendulungu, aboncantathu, iinkwere naboncamane.** **Okuphathelene nesikinyo lomzimaba** Vumela abafundi ukuba ngababili.. - Omunye agwale ubujamo phezulu komgogodlha womngani/wepara yakhe ngomuno. Omunye umfundi ufanele atjho ubujamo obusemgogodlhweni wakhe. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Ukunikela ubujamo beJiyometri obunobukhulu nobudege obuhlukeneko isib: Vumela abafundi: - Bahlele ubujamo beJiyometri ukuya isib. Ngeendulungu, aboncantathu, iinkwere naboncamane. - Bahlele ubujamo beJiyometri ngokuya ngesayizi. - Bahlele ubujamo beJiyometri ngokuya ngombala.. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi: - Ukusika ubujamo obutjhiwo ngehla babusika ephepheni. Bafake amajamo amakhulu namancani naboncantathu bama-engeli ahlukeneko.. - Bahlele ubujamo obuhlukeneko boke. - Ukutlama isithombe ngamabumbeko asikiweko bebawasebenzise ngesikhathi somsebenzi wobuKghwari	Amajamo ahlukeneko. Iphepha lokusebenzela elineendulungu, aboncantathu neenkwere naboncamane phezu kwalo.isib.  Faka hlangana ibumbeko elikhulu namkha elincani naboncantathu bama-engeli ahlukeneko.isib. 	Ilanga li-1

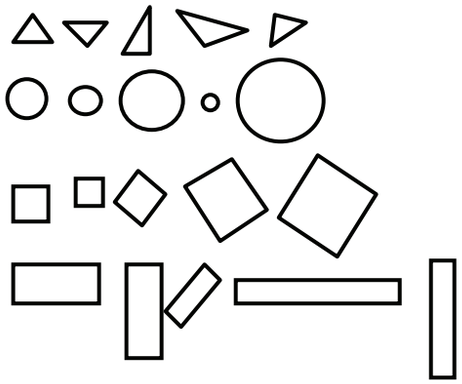
Iveke yama-34	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
3.4 **Isimethri**	• **Ukuthuthukisa ilemuko lokuthi kunesimetri eentweni.** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Ukuqala izinto zamambala ezizokubonisa isimetri (ihlangothi elinye elifana poro nelinye ihlangothi) Isib iviyaviyani, ikari lethuthumbo njll. - Utitjhere nabafundi babuthelela iinthombe zemitlamo leyo enesimetri isib; imitlamo ependwe phezulu kwezindlu, imitlamo ephezu kwamathayilisi, imitlamo esemijekeni nemapharatjhutheni. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Abafundi basika ubujamo behliziyo nofana emjekeni wethuthumbo ezisephepheni elibhinciweko laba yihafu abe alikghabise ngesikhathi sobuKghwari obuBonakalako.	  Iphepha elibhinciweko ngesiquntu.	Ilanga li-1

Iveke yama 35	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elifunyenwe evekeni yama 34 elifaka hlangana inomboro- 9** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni li-9. Ukubala uye phambili begodu uye emuva ukufika li-9. Ukubala okungakahleleki ukusuka ku 1-10. **Ukuqinisekisa ukubala ngakubili usebenzise imidunduzelo yeenomboro** **Ukuqinisa umqondo wokuthi ” nengi ” dlazana ”** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla ali-9. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Iingoma nemidunduzelo yeenomboro	Ilanga li-1
	Okuphathelene nokusikinya umzimba. Asidlale umdlalo: Utitjhere ubeka ikhadibhodi ekulu yobujamo nofana amakarada weenomboro afaka hlangana iinomboro ezisuka ku -1ukuya kuli- 9 ngokulandelana kwazo eflurwini. The teacher places the large cardboard number shapes or cards that involve numbers 1 to 9 in order on the floor. Utitjhere unikela abantwana iinlayelo ezifana njenga: - Hlala phezu kwenomboro yesi-6. - Beka izwani lakho enomborweni yesi-3. - Gijima uzombeleze inomboro- 2 ka -3. - Yeqela ngale kwenomboro yoku-1. - Ngokukhamba kwesikhathi, utitjhere angarhatjha amkarada weenomboro zamatshwayo.	Isede lekarada elikhulu elineenomboro namatshwayo. Ungazipenda phezu kwentokana ezidege zamaplastiki nofana phezu kwebhodi eqinileyo  	
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Ukusebenzisa iinomboro ebujameni obujayelekileko** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi: - Ukubala izinto ngetlasini. - Ukubala ngezinto zokubala. - Utitjhere ubeka izinto ngewobhi etafuleni. Uvumela abafundi bafunisele ukuthi zingaki izinto ezibekwe ewobhini. Zibaleni kamuva.	Izinto zokubala Izinto ezingetlasini	Ilanga li-1

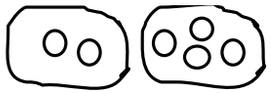
Iveke yama 35	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi: - Ukudlala imidlalo ngokuhlobanisa inomboro yezinto zokubala negama lenomboro, itshwayo, namathosi/amachatjhaza namakarada weenthombe. - Qinisekisa bonyana ishwayo lenomboro begodu negama lenomboro ngasososke isikhathi lihlobana /khambelana nezinto. - Gadangisa inomboro li-9 ngekhrayoni.	Amafletjhi karada anamagama namatshwayo weenomboro ,amatqatjhazi neenthombe isib.  Izinto zokubala, amakhrayoni	Ilanga li-1
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula ngomlomo imiraro yamagama (iindatjana zeembalo) ebujameni obujayelekileko efaka hlangana inomboro ku-1ukuya kuli-9.** **Okuphathelene nokusikinya umzimba** - Coca iindatjana ngomuthi onenyoni eyodwa kiwo. Enye inyoni iyafika nayo emthini loyo. Sezingaki iinyoni njenganje? Abafundi benza umdlalo ngendatjana bafaka namamaski. Ku-1naku-1kwenza ku-2. Buyelela indatjana bekufike eenyonini ezili- 9.	Isithombe somuthi omkhulu	Ilanga li-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Umngani munye unezinto zokubala ezibu-8 isib. iimbandana zeplastiki begodu umngani wakhe unayi- 1. Baneembandana ezingaki zeplastiki nebahlangene bobabili? Ubu- 8 naku- 1 → 9	izinto zokubala 9	
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Nikela omunye nomunye umfundi iphepha lokusebenza elinesithombe somuthi. Abafundi babeka into yokubala eyodwa phezu komuthi. Baragela phambili nokungezelela into yokubala phezu komuthi.	Amaphepha wokusebenzela anemithi nezinto zokubala	

Iveke yama 35	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
3.1 **Position, orientation and views**	• **Ubjamo bezinto ezimbili nokuhlobana kwazo enye kwenye** **Okuphathelene nokusikinyeka komzimba** - Umfundi ubawa umngani bonyana ajame hlangana nezinto ezimbili nofana nabafundi ababili. - Umfundi ubawa umngani bonyana ajame eqadi komntazana ombethe irogo elihlaza sasibhakabhaka - Umfundi ubawa umngani bonyana ajame eqadi komsana ombethe amapatlagwana abhraweni **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** • Dosa/haga idrada phakathi kwezinto ezimbili. • Abafundi baphanyeka izambatho zamambala ngokulandela umyalo onqophileko isib. - "Phanyeka amahembe ngehlangothini lesincele sedrada yezambatho " - "Phanyeka amarogo ngehlangothini lokudla lamahembe " - Phanyeka iinsagadugu eqadi kwe…..njll." - "Phanyeka amabhrugu hlangana ne…..njll." **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** • Gwala isithombe sendlu ngokulandela ukulayelwa isib. - Gwala umfulelo ngaphezulu ephepheni - Gwala amaboda wendlu phakathi naphakathi kwephepha njll. - Gwala inja ngesandleni sesincele sendlu. Iphepha lokusebenzela kufanele bonyana lingaba likhulu-khulu, ukuqinisekisa bona ubujamo obuhlukahlukeneko buyathintana ukwenza isthombe sendlu. 	 Iphepha lokusebenza Amakhrayoni	Ilanga li-1

Iveke yama 35	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Ukukhumbula, ukubona begodu nokutjho amagama wobujamo obububsobubili 2-D ngetlasini nasenthonjeni:** - **Ukubulunga ubujamo** • **Ukuqinisekisa ilwazi elitholakele ngobujamo baboncamane** **Ukubulunga ubujamo likgono lokuhlukanisa hlangana namajamo akhona ebhodulukweni lethu, ngaphandle kokuqala ubukhulu/isayizi yayo nofana isayizi yama-engele.** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Hlukanisa abafundi ngenqheema. - Nikela isiqheema ngasinye amajamo ali-9 waboncamane abamabhlogo wokwakha ahlukahlukeneko. Vumela abafundi: - Ukuhlela amajamo aboncamane bamabhlogo wokwakha ahlukahlukeneko ngeenqhema zamasayisi alinganako. - Ukubala inani lamabhlogo wokwakha. Utitjhere unikela imilayelo elandelako: - Beka aboncamane bamabhlogo wokwakha emdeni onqophileko.  - Beka aboncamane bamabhlogo wokwakha ajame rwe.  - Beka aboncamane bamabhlogo wokwakha ngomuda omazombezombe.  - Utitjhere unikela umfundi ngamunye isiquntu sewulu. Abafundi benza aboncamane ngewululo.  - Utitjhere utjengisa abafundi bonyana umfundi ngamunye wenze uncamane ongafani nowomunye kodwana boke boncamane.	Isiqheema ngasinye sithola amajamo ali-9 waboncamane abamabhlogo wokwakha ahlukahlukeneko Isiquntu sewulu	Ilanga li-1 Nofana khetha owodwa wemisetjenzana kwaphela

Iveke yama 35	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
3.3 **Ubujamo obubusobubili (2-D)**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhere ugwala amafletjhi karada ama-20 wemihlobohlobo, elinye nelinye libe naboncantathu abahlanu, iindulungu, aboncamane, iinkwere phezu kwalo.isib.  Utitjhere uhlukanisa abafundi ngenqheema. Vumela abafundi: - Ukukhetha amafletjhi karada waboncamane hlangana namanye amjamo. Vumela abafundi: - Ukukhetha zoke iinthombe ezinamathuthumbo ezihlangana nezinye ezinemithi namakari wemithi njll.	Amakarada anamafletjhh karada ahlukahlukeneko, elinye nelinye libe namunye waboncantathu abahlanuabahlukahlukeneko naboncamana abahlanu, iindulungu ezihlanu, iinkwere ezihlanu phezu kwawo.	

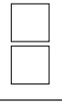
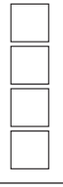
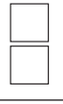
Iveke yesi 36	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elifunyenweko elifaka hlangana iinomboro ku-1 ukuya kuli-9** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni li-9. Ukubala uye phambili begodu uye emuva ukufika li-9. Ukuqinisekisa ukubala ngakubili kusetjenziswe imidunduzelo yeenomboro. **Ukuqinisekisa imiqondo yobu" nengi" no "mbalwa"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla ali-9. **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Beka izinto ngeenqhema okufaka hlangana inomboro 1 – ukufika 9 bese ubala izinto ngokuphimisela. - Ukudlala umdlalo wedomino yeenomboro.	Iingoma nemilolozelo yeenomboro  Izinto ezingetlasini Amadomenus wenomboro	Ilanga li-1
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) Nikela omunye nomunye umfundi isithombe, iqatjhazi, itshwayo lenomboro nofana ikarada legama lenomboro. Abafundi baphendula iinlayelo ezibuya kutitjhere. - Abafundi bahlala benze indulungu. - Utitjhere ubiza inomboro isib. li-9. Umfundi ophethe isithombe, iqatjhazi, itshwayo lenomboro begodu negama lenomboro elijamele inombobo li-9, uyakhambe azungeleze indulungu athi:"Ngiphethe uli – 9" - Buyelela wenze ngazo zoke ezinye iinomboro . - Lokha nasele woke umfundi athole ithuba lokuba 'yinomboro', biza iinomboro ngokulandelana. - Abafundi bayasikima bajame ngenyawo baphakamise amakarada wabo phezulu nange iinomboro zabo zibizwa. - Qalisisa bonyana abafundi bayakghona ukuzihlela ngokwabo ngokulandelana ukusuka eku–1 ukufika kuli - 9 - Qalisisa bonyana abafundi bayakghona ukulandelanisa woke amakarada ajamele iinomboro ngokwabo 1, 2, no 3 ukufika enomborweni li-9 sezizoke.	Amasede aneleko wamakarada weenomboro ezifaka hlangana 1 kuya 9,omunye nomunye umfundi etlasini uthola iflesh karada.	

Iveke yesi 36	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Madanisa bonyana ngiliphi lamabuthelelo amabili onikelwe wona eli:** - **Nengi kuna** - **mbalwa kuna** - **Kulingana na** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Utitjhere unikela imihlobohlobo yezinto ezihlukeneko ezifana namakari, amatje, iimvalo zamabhodlelo, amakhrayoni, amabhlogo njll. Vumela abafundi: - Bazihlele ngokuya “ngeenqhema” isib. Amatje woke abe ndawonye. - Babale inani lezinto kesinye nesinye “isiqhema”. - Batjengise bonyana ngisiphi “isiqhema” “esinengi kuna,” “mbalwa kuna,” begodu ”nesilingana nesinye”. Amasethi afakahlangana iinomboro ukufika kuli – 9: - Abafundi bahlala phezulu kwemada benze “iindleke” ezimbili ngewulu. - Utitjhere unikele abafundi iinlayelo bonyana bafake izinto zokubala ezi – 2 esidlekeni esisodwa begodu, ezi 4 ngakesinye isidleke. - Buza imibuzi efana nokuthi, “ngisiphi isidleke esinezinto ezinengi kuna” “ezimbadlwana kuna” begodu nenani elilinganako?. Isib.Isidleke esinezinto ezi – 2, “ezimbadlwana” kunesidleke esinezinto zokubala ezi- 4.  - Vumela abafundi babumbe “okunengi”kuna, “okumbadlwana” kuna ”noku‘linganako” emasethini aneenomboro ukufika e - 9	Iinquntu ezimbili zevolo zinikelwa omunye nomunye umfundi Izinto zokubala ezili-9 zinikelwa omunye nomunye umfundi	Ilanga li-1

Iveke yesi 36	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.13 **Ukuhlanganisa nokukhupha**	• **Ukurarulula imiraro yokuhlanganisa nokukhupha ekhulunywe ngomlomo okufaka hlangana iinomboro ku—1 ukuya kuli-9** **Zomlomo:** Ukubala izinto zangamalanga ukufika enomborweni bu- 9. Ukubala uye phambili begodu uye emuva ukufika bu-9. Ukuqinisa ukubala ngakubili ngokusebenzisa imdunduzelo yeenomboro **Ukuqinisekisa ukubala ngeenomboro sikhundla**: Utitjhere upaka izinto zokubala ezisi-6 ngereyi. Ukhomba entweni ngayinye lokha nakabala *kokuthoma, kwesibili, kwesithathu, kwesine, kwesihlanu* , *kwesithandathu* . **Qinisekisa imiqondo ye "nengi" na "mbalwa"** Wahla izandla zakho amahlandla amanengi ... JAMA. Wahla izandla zakho amahlandla ambadlwana. Utitjhere uwahla izandla zakhe amahlandla ali-9. Buza umbuzo wokobana ngimaphi amahlandla wokuwahla izandla abe manengi khulu/mancani khulu.	Iingoma nemilolozelo yeenomboro	Ilanga li-1
	Okuphathelene nokusikinyeka komzimba - Utitjhere ubizela umfundi o – 1 ngaphambili. - Utitjhere ufaka inani elihlukileko lemincamo (ukufika e – 9) kesinye nesinye isandla somfundi isib. 4 esandleni esinye na – 5 ngakesinye isandla. - Utitjhere uhlela abafundi ngenqheema zangalithoba. - Abafundi bahlala phasi. - Utitjhere ubawa abafundi aba – 2 basikime bajame ngeenyawo. - Utitjhere ubuza bonyana "Bangaki abafundi abahlezi phasi?"	Iimincamo nofana izinto zokubala	

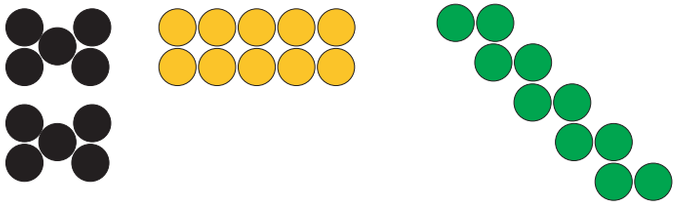
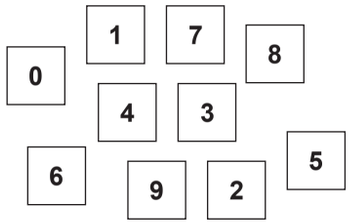
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Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.13 **Ukuhlanganisa nokukhupha**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Abafundi bahlala benze indulungu. - Omunye nomunye umfundi uthola imincamo ebu-9 efakwe ngekomitjini leplastiki. - Thatha imincamo esi-6 engekomitjini uyibeke phezulu kwepiringi. Thatha eminye emi-3 uyihlanganise nemincanyana esepiringini. Mingaki imincamo engepiringini? Isi-6 naku- 3 → 9. - Thatha imincamo emi-4 engepiringini uyifake ngaphakathi kwekomitji yeplastiki. Thatha eminye imincamo emi-5 uyihlanganise nemincamo engekomitjini yeplastiki. Mincamo emingaki engepiringini? I - 9 ukhupha/susa ku-4 ukhupha/susaku-5 → 0. - Susa imincamo emi-4 engekomitjini yeplastiki uyise ngepiringini. Kunemincamo emingaki esele komitjini yeplastiki? I-9 ukhupha ku-4 → 5. - Susa imincamo e-5 ekomitjini yeplastiki uyifake ngepiringini. Kusele imincamo emingaki ngekomitjini yeplastiki? Ku-5 susa/khupha ku-5 → 0. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Hlukanisa abafundi babe ziinqhema. Nikela isiqhema ngasinye isedi yamafletjhikarada weenthombe. - Bala iinthombe ezi-6 ezisefletjhikaradeni. Lokha nawuhlanganisa nefletjhikarada elineenthombe ezi-2 phezulu kwalo. Uzokuba nazingaki kwanjesi? Isi-6 naku-2 → 8. - Bala izinto ezi-8 ezisekaradeni lesithombe. Lokha nange uvala ezintathu zeenthombe, zingaki ozibonako? 8 susa/khupha 3 → 5. - Paka izinto zokubala ezilingana nalezo?	Nangabe awunamakomitji nofana amapiringi ungasebenzisa lokho onakho. Amasethi ambalwa wama fletjhikarada aneenthombe	Ilanga li-1
2.1 **Amaphetheni weJiyomethri**	• **Kopulula iphetheni yamatjhada** **Okuphathelene nokunyakaziswa komzimba** - Utitjhere uhlukanisa abafundi iinqhema ezintathu. Hlebela begodu ukhombise isiqhema ngasinye bonyana ngiliphi itjhada lesithuthi elizajanyelwa siqhema leso. - Isiqhema ngasinye senza itjhada lesithuthi leso abasijameleko lokha utitjhere nakabakhombako. - Vuum, brrm, khutjhukhutjhu	Iinthombe ezintathu zeenthuthi ezihlukahlukaneko nofana imitjhini	Ilanga li-1

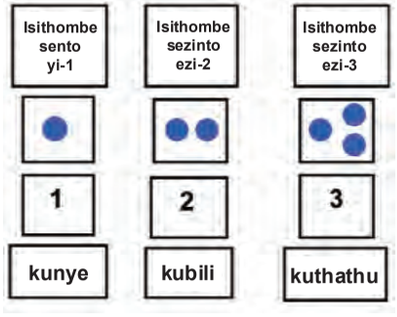
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Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
5.1 **Ukubuthelela nokuhlela izinto ngemihlobo**	• **Ukuqinisekisa umqondo wokuphatha idatha** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Asidlaleni umdlalo: Ukubeka ngamananeko begodu ubuthelele ngokukhetha umbala wehlama yokudlala yeemveke ezilandelako isib. - Umraro okufanele usonjululwe kuthola umbala wehlama yokudlala okufanele ube khona ngeveke elandelako.		ilanga1
5.2 **Ukujamiselela ibuthelelo lezinto elihlelekileko**	**Buthelela idatha begodu uyihlele** - Sebenzisa izinto eziphathekako ukwenza iGrafu okufana nama bhlogo, amakhyubhu agandalelweko, amabhlogo weLego nofana weDuplo ajamele umbala wehlama, uhlela ukuyenza isib. hlaza kwesibhakabhaka, sarulana nehlaza kotjani. - Omunye nomunye umntwana ukhetha ibhlogo elilodwa elijamele umbala wederhe yokudlala yeveke azikhethele yona.	Hlaza sasibhakabhaka,sarulana,ilego ehlaza satjani, amabhlogo we Duplo ne unifix (umhlobo munye kuphela ofanene usetjenziswe)	
5.3 **Coca bewubike ngokuhlelwa kwezinto ezibuthelelweko**	**Gwala iGrafu** - Amabhlogo agandalelwe ngokuya ngokombala osepostareni. **Funda bewrhumutjhe iGrafu** - Ngokuya ngokuzikhethela kwabafundi, umbala wehlama yokudlala waleveke uzakuba ngosarulana.		

Hlaza sasibhakabhaka	Sarulani	Hlaza satjani
		
2	4	2

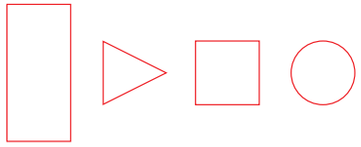
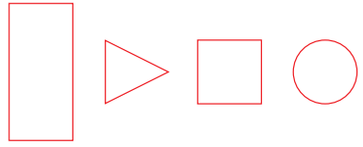
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Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Ukwethula ihlathululo yenomboro 0 (ilize)** **Zomlomo:** Ukubala izinto zangamalanga ukufika e-10 ukuthoma elizeni Ukubala uye phambili nokuya emuva ukufika ke-10 ukuthoma elizeni. **Ukuqinisa ukubala ngakubili ngokusebenzisa imidunduzelo yeenomboro** **Ukuqinisa ukubala ngeenomboro ezilandelanako:** Utitjhere upaka izinto zokubala ezisi-6 ngereyi. Ukhomba entweni ngayinye lokha nakabala *kokuthoma, kwesibili, kwesithathu, kwesine, kwesihlanu , kwesithandathu* **Ukuqinisa imiqondo elandelako:" nengi" begodu "mbadlwana"** Ukuwahla izandla amahlandla amanengi …. JAMA. Ukuwahla izandla amahlamdla ambadlwana. Utitjhera uwahla izandla bekube ka-10 Ubuza imibuzo bonyana ngikuphi ukuwahlwa kwezandla okube kunengi khulu/ mbalwa khulu. Utitjhera ukhomba bonyana ilize "alitjho litho" begodu nokuthi ukubala kuthoma ku-1. **Okuphathelene nokusikinyeka kmzimba** - Utitjhera utjengisa abafundi igama lenomboro ilize. - Vumela abafundi nakhombe bonyana ngisiphi isitho zomzimba esingenza ilize, isib. o Umlomo womfundi o Imino yomfundi 	Iingoma nemidunduzelo yeenomboro	Ilanga li-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Utitjhera ubeka into yokubala esandleni sakhe esisodwa begodu azikho izinto zokubala kwesinye isandla. - Uvula isandla sakhe esisodwa begodu utjengisa abafundi into yokubala eyodwa., bese uvula esinye isandla sakhe begodu utjengisa abafundi bonyana asinalitho. - Ungasebenzisa nabafundi ukwenza umsebenzi lo. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Utitjhera utjengisa abafundi amafletjhikarada angenaanthombe begodu netshwayo lenomboro 0.	Izinto zokubala 0	

Iveke yama 37	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	**Ukwethula ihlathululo yenomboro i- 10** **Zomlomo:** Ukubala izinto zangamalanga ukufika ku-10 Ukubala uye phambili nokuya emuva ukufika ku-10 . Ukubala okungakahleleki 0-10 **Ukuqinisa ukubala ngakubili ngokusebenzisa imidunduzelo yeenomboro** **Ukuqinisa ukubala ngeenomboro ezilandelanako:** Utitjhere upaka izinto zokubala ezisi-6 ngereyi. Ukhomba entweni ngayinye lokha nakabala *kokuthoma, kwesibili, kwesithathu, kwesine, kwesihlanu , kwesithandathu* **Ukuqinisa imiqondo elandelako:" nengi" begodu "mbadlwana"** Ukuwahla izandla amahlandla amanengi …. JAMA. Ukuwahla izandla amahlamdla ambadlwana. Utitjhera uwahla izandla bekube ka-10 Ubuza imibuzo bonyana ngiliphi inani lokuwahlwa kwezandla elibe linengi khulu/ lincani khulu.	Iingoma nemilolozelo yeenomboro	Ilamga li-1 Khetha imisetjenzana embalwa kwaphela.
	Okuphathelene nokusikinyeka komzimba Vumela abafundi bonyana: - Ngababili benze inombolo ye-10 ngemizimba yabo (abafundi aba- 4) - babale ukufika ku-10 ngesikhathi balandele ibetho lesigubhu - Baphakamise imino emi-10. - Bagwale inomboro ye-10 esandeni/ phasi/ begodu hkamba kiyo. - Beqe kali-10 - Bafake amakhadibhodi weenomboro asikiweko ngemgodleni ophethe izinto okufanele umfundi afanisele ngokuzwa/ ngokuthinta bonyana ubamba ini. - Yiba namafletjhikarada aneenthombe ezijamele inomboro, isib. Iimbholo esimbili ezisekeradeni nenomboro u-2. Abafundi "bezwa" iinomboro ezingabhegeni begodu bazimadanise namakarada.	Iinomboro zamakhadibhodi ezisikiwko Amafletjhikarada wamatshwayo weenomboro amakhulu	

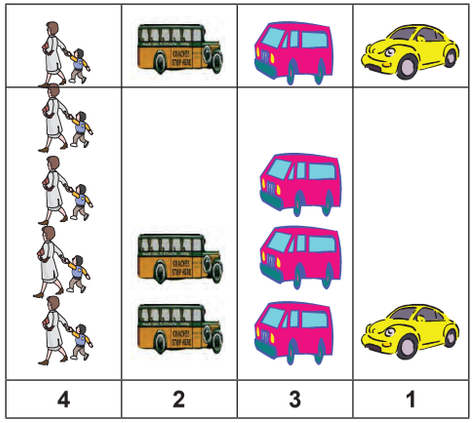
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Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi bonyana: - Babeke iinomboro zabo zomtato ngokusebenzisa amakarada amakhulu .wamatshwayo weenomboro. Balemukise ilize elijamele inomboro 10. - Bathuthukise ilemuko lenomboro engatjhugulukiko ngokuvumela abafundi babeke izinto zokubala ezilitjhumi nofana nanyana ngiziphi izinto ngeendlela ezihlukahlukeneko, isib.  Nawubalako, inani lezinto aliphazanyiswa bukhulu bento, nofana indawo nanyana zingaba mihlobo efanako. Isibonelo, - Hlela iinkunubhe ezi-10, amapensela ali-10, amahubhsi ali-10, abafundi abali-10, njll. - Zibale ngendlela ehlukahlukeneko, zibale zirhatjhekile, zihlalelene ndawonye, zisemideni nofana zimahobhi, njll	Amakarada aneenomboro zetelefomu zabafundi 	

Iveke yama 37	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi balandele ilayelo likatitjhera: - babeke izinto ngeenqhema ezifaka hlangana iinomboro 1 ukuya ku 10 begodu babalele izinto phezulu. Utitjhera uhlukanisa abantwana ngeenqhema ezi-5. Vumela abafundi bonyana: - Hlela begodu hlobanisa amakarada weenthombe, amafletjhikarada wamaqatjhazi, amatshwayo weenomboro begodu namagama wenomboro ngendlela elandelanako ukufikela enomborweni ye-10 njll.  - Beka izinto zokubala ezikhambelana namaqatjhazi aphezu kwekarada ngalinye.	Izinto ezingetlasini Isede yesithombe ukufika enomborweni ye-10 0 Izinto zokubala	

Iveke yama 37	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
2.1 **Amaphetheni weJiyomethri**	• **Dlala umdlalo wephetheni – "iHop skotjhi"** Hlanganisa nesiFundo sokuziThabulula emaKghonweni wePil **Okuphathelene nokusikinyeka komzimba** - Khamba khamba ngendlini. Esitjengisini, nofana umvumo nawujanjiswako, utitjhera ubiza igama letjhada. Abafundi benza ijamo lelo ngemini yabo. Bangakha iinqhema begodu bakhe ijamo ngemizimba yabo. - Gwala iphetheni engenzasi eflurwini/phasi nofana evarandeni ukobana abafundi bakhambe ngendlela enqophileko  Hlathulula iphetheni, isib. - Buza imibuzo efana nelandelako: - "Ngiliphi ijamo eliza ngemva kukancamane wokuthoma na?" - "Ngiliphi ijamo eliza ngaphambi kwendulungu yokuthoma?" Abafundi balandela iphetheni ngendlela elendelako: - Utitjhera uthi: "John, yeqa ngaphambi kukaMelissa", begodu Mary, ungeqa ngemva kukaKabela" - Yeqela ngeenyawo zombili kuncamane. - Yeqela ngenyawo lesincele kuncantathu - Yeqela ngenyawo lesidleni esikwereni. - Yeqela ngeenyawo zombili endulungeni begodu jika isizungu zungwane ngendulungeni. - Qedelela iphetheni.	Isibonelo sephetheni esinikelweko esigwalwe eflurini, phasi, evarendeni.	Ilanga li-1

Iveke yama 37	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
2.1 **Amaphetheni weJiyomethri**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Umfundi ngamunye uthola amajamo alandelanako:  Utitjhera wenza iphetheni ngamajamo wakhe Vumela abafundi: - bakope iphetheni katitjhera basebenzise amajamo angehla - bathuthukise iphetheni yabo ngamajamo anikelweko.	Umntwana ngamunye uthola amajamo alandelako: 	
3.1 **Ubujamo, ukujayeza nokubukela**	**Ukulandela iinkombatjhuba zokukhamba nofana zokuzithola usendaweni ethile ngesikhathi esinqophileko** • **Ukuthuthukisa umcabango wekombatjhuba ngokusebenzisa iinlayelo ukufaka hlangana esinceleni begodu nesidleni** **Okuphathelene nokusikinyeka komzimba** Vumela abafundi balandele iinlayelo zikatitjhera: - Qala phezulu/ qala phasi/ qala ehla - Khothamela phasi - Phakamisa umlenze wesincele/ phakamisa umlenze wangesidleni - Khasa uzombe itafula - Khamba utjhinge phambili/ khamba utjhinge emuva - Faka izandla ngaphakathi/ ngaphandle - Jama ehlangothini langesinceleni lesitulo/ Jama ehlangothini langesokudla lesitulo - Jama ngaphambi kwesitulo sakho/ ngemva kwesitulo sakho - Jama hlangana neentulo ezimbili - Qala ngesokudla/ qala ngesinceleni - Jikisa inyawo lakho langesinceleni. Jikisa inyawo lakho langesidleni	Iinlyalelo zikatitjhera **Itheminoloji:** phezulu/phasi ngaphakathi/ bgaphandle phezulu/phasi phambili/emuva ngaphambi kwa/ngemuva kwa phezu/ ngaphezulu/ ngaphasi/ ngaphezulu ihlangothi linye/ihlangothi elinye hlanu kwe ngesinceleni /ngesidleni hlangana	Ilanga li-1

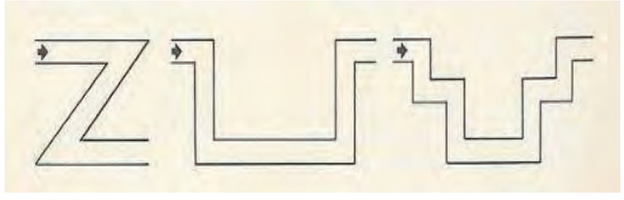
Iveke yama 37	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** Vumela abafundi benze izinto ezilandelako ebhodini: - Gwala iindulungu begodu ragela phambili ubuyelele begodu ubuyelele  - Gwala imida enqophileko ukusuka esinceleni ukuya esidleni  - Ukugwala imida eye phezulu naphasi  - Utitjhera ugwala amaqatjhazi amabili begodu umfundi ugwala umudaowahlanganisako 	Itjhokibhodi	

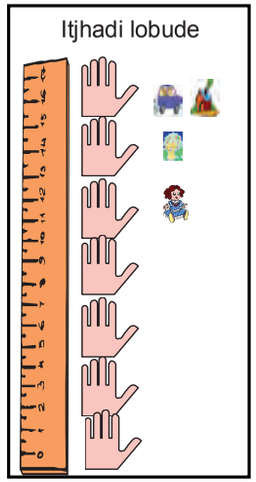
Iveke yama 37	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
5.1 **Ukubuthelela nokuhlela izinto ngemihlobo**	• **Ukuqinisa imiqondoyokuphatha idatha** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Utitjhera uhlathulula begodu ufunyana bonyana umntwana ngamunye uza ngani esikoleni. - Ubuthelela igrafu yeenthombe etjengisa abafundi bakhamba, beza esikoleni ngeteksi, beza ngekoloyi yababelethi bakhe begodu nabafika ngebhesi, isib		Ilanga li-1
5.2 **Ukujamiselela ibuthelelo lezinto elihlelekileko**	 4 2 3 1	Abomegezini abaneenthombe zeteksi, zebhesi, zekoloyi begodu nomfundi okhambako. Nawunganazo iinthombe, sebenzisa lokho onako begodu gwala zakho	
5.3 **Coca begodu ubike ngokuhlelwa kwezinto ezibuthelelweko**	- Tsenga imiphumela ngokuya ngemibuzo		

Iveke yama 38	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisa ilwazi elizuzwe evekeni yama-37 efaka hlangana inomboro 0 ukuya ku-10** **Zomlomo:** Ukubala izinto zangamalanga ukufika e-10 Ukubala uye phambili begodu uye emuva ukufika e-10 Ukubala okungakahleleki 0-10 **Ukuqinisa ukubala ngakubili ngokusebenzise imidunduzelo yamagama** **Ukuqinisa ukubala ngeenomboro ezilandelanako:** Utitjhere upaka izinto zokubala ezisi-6 ngereyi. Ukhomba entweni ngayinye lokha nakabala *kokuthoma, kwesibili, kwesithathu, kwesine, kwesihlanu , kwesithandathu*		llanga li-1 nofana khetha kwaphela eminye imisebenzi
	Ukuqinisa imiqondo elandelako:" nengi" begodu "mbalwa" Ukuwahla izandla amahlandla amanengi …. JAMA. Ukuwahla izandla amahlamdla ambadlwana. Utitjhera uwahla izandla bekube ka-10 Ubuza imibuzo bonyana ngikuphi ukuwahlwa kwezandla okube kunengi khulu/ mbalwa khulu.	Iingoma nemidunduzelo yeenomboro	
	Okuphathelene nokusikinyeka komzimba - Utitjhera ugwala iindulungu ezi-11 (1ukuya 10) etatawini lezemidlalo nofana basebenzise amawupsi. Tlola iinomboro 0 ukuya ku-10 ngaphakathi kwendulunga ngayinye. - Khumbuza abafundi bonyana i-0 alitjho litho. Nangabe umfundi uphosa umgodlana wamabhontjisi " endulungeni yelize" uzokuphuma angasadlali . - Umfundi uphosa umgodlana wakhe wamabhontjisi endulungeni ekhambisana neqatjhazi begodu/nofana nekarada lesithombe esitjengiswe ngutitjhera. - Umfundi uphosa umgodlana wakhe wamabhontjisi endulungeni etjengiswe ekaradeni lamatshwayo wenomboro etjengiswe ngutitjera. - Ragela phambili ngokusebenzisa amakarada wamagama weenomboro ngendlela efanako.	imigodlana yamabhontjisi eli-10 Iindulungu ezigwalwe esanseni, phasi nofana eflurini nofaha sebenzisa amawupsi	

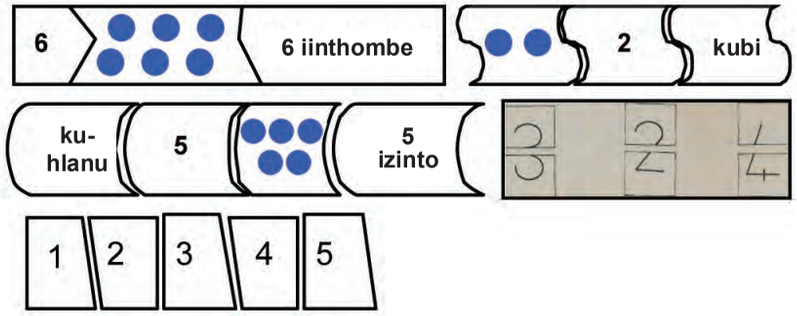
Iveke yama 38	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.3 **Amatshwayo weenomboro namabizo weenomboro**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Asidlaleni umdlalo: - Utitjhera utlola igama lenomboro ehlangothini elilodwa lekarada begodu utlola itshwayo lenomboro ehlangothini elinye lekarada elifaka hlangana iinomboro. - 0 ukuya ku 10 (sebenzisa amasede ambalwa) - Abafundi " bafunda" igama lenomboro begodu bafunisela itshwayo lenomboro - Baphendulela ikarada ngale kwalo begodu bazilungisa ngokwabo.	Isede yamakarada weenomboro efaka hlangana Inomboro 0-10 Amakarada afaka iinomboro 1-10 ezinamagama weenomboro kelinye ihlangothi begodu netshwayo lenomboro kelinye hlangothini. (yenzaq amasede ambalwa ukwenzela bona omunye nomunye umfundi abe nekarada lakhe)	
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Ukwethula iinomboro ngokulandelana kwazo- kokuthoma, kwesibili, kwesithathu ukufikele kukwesithandathu.** Umnqondo lo uthuthukiswa kuhle khulu ngokukhamba kwesikhathi begodu ngokusebenzisa nokulebula ubujamo bemvelo njengombana benzeka ngetlasini, isib. Ukujama emdeni wokulungiselela ukuya ngaphandle "USiya ngewokuthoma, uHelen ngowesibili ...." **Okuphathelene nokusikinyeka komzimba** - Vumela abafundi baphalisane ngokugijima. Ngubani ofike kokuthoma, kesibili, kokugcina emdeni? **Dlala umdlalo- Ngiyiphi okungiyo?** - Bawa abafundi abahlanu bahlale ngereyi eentulweni ezihlanu. - Utitjhera uthi: Ngicabanga ngabanye babafundi laba. Umfundi umbethe ijesi ebomvu." - Ukuthoma ngomfundi ohlezi ngaphambili, ukhamba ereyini, uthinta umfundi ngamunye begodu ubuza: " Kumfundi wokokuthoma, wesibili, wesithathu... na? Vumela abafundi bajame ngaphandle emastebhisini. Utitjhera ubeka ikarada lamatshwayo weenomboro afaneleko ngaphasi komfundi ngamunye emastebhisini. Ngitjengise bonyana ngimuphi umfundi ojame - Esistebhsini sokuthoma - Esistebhsini sesibili - Esistebhsini sesithathu, njll. Umfundi osestebhsini sokuthoma uphakamisela phezulu ikarada letshwayo lenomboro kwaphela ngemva kobana ipenduo inikelwe bafundi betlasi lakhe. Ragele phambili ufike enomborini yesi-6	Iintulo ezihlanu Isede yamakarada anamatshwayo weenomboro afaka iinomboro 1 ukuya ku- 10 Sebenzisa onakho nakungekho iintepisi	Ilanga loku-1

Iveke yama 38	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
1.7 **Ukuhlanganisa nokukhupha**	• **Ukurarulula iinkinga zamagama ngomlomo (indatjana yeembalo) ezifaka inomboro 10** **Zomlomo:** Ukubala izinto zangamalanga ukufika ku -10 Ukubala uye phambili begodu uye emuva ukufika ku-10. **Ukuqinisa imiqondo elandelako:" nengi" begodu "mbalwa"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-10. Buza imibuzo bonyana mangaki amahlandla wokuwahla amanengi khulu, ambadlwana **limbonelo:** 1. Bekunabafundi aba-5 ngetlasini. Kwafika abanye abantazana aba-5. Bangaki nasele baboke? 5 na 5 → 10. 2. Bala izinto zokubala ezi-7. Ngeza ngazimbili. Ngeza ngayinye godu. Zingaki nasele zizoke? 7 na 2 na 1 → 10. 3. Kunezinto zokubala ezi-10 etafuleni. Kusele ezine kwaphela. Zingaki izinto zokubala ezisusiweko? 10 khupha 6 → 4. Unamamabula ali-10. Susa ma-3. Mangaki aseleko? 10 khupha 3 → 7 4. Ubhage amakhekhe ali-10. Uthengise ma-2. Mangaki amakhekhe aseleko 5. Kunezinto zokubala ezi-10 etafuleni. Kusele zintathu kwaphela. Zingaki izinto zokubala ezisusiweko?	Izinto zokubala	Ilanga li-1
3.1 **Ubujamo, ukujayeza nokubukela**	• **Ukulandela iinkombatjhuba zokukhamba nofana zokuzithola ngokwakho usendaweni ethile ngetlasini.** **Okuphathelene nokusikinyeka komzimba** - Utitjhera ubawa abafundi bonyana bayokujama ngemuva ngeklasini (umnyango ovulekako utjengisa ingaphakathi letlasi) - Utitjhera ubawa abafundi bonyana bayokujama ehlangothini elilodwa langetlasini/ kelinye ihlangothi letlasi. - Utitjhere ubawa abafundi bonyana bajame ngaphambili ngetlasini.		Ilanga li-1
	Ukusetjenziswa kwezinto ezibosobathathu 3-D eziphathekako **Itjhada linehlathululo** Abafundi balalela: - Isimbi - ifengwana. - Isitlabagelo somvumo - Ukubethwa kwamabhlogo amabili ndawonye	Isimbi Ifengwana Esinye nesinye isitlabagelo somvumo Amabhlogo amabili weengodo	

Iveke yama 38	**Isikhathi sokuthintana esiphakanyisiweko:** **Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke**		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	Abafundi bavala amehlo wabo begodu balemuka itjhada lesimbi, nofana lefengwana nofana lesitlabagelo somvumo. - Abafundi bavala amehlo wabo begodu balemuka bonyana itjhada livela ngakuphi. Bangathoma ngokuphosa umgodlana wamabhontjisi ngehlangothini okuvela kilo itjhada begodu bathintana bonyana itjhada livela ngakuphi, isib. Ngaphambili kwetlasi, hlanu kwehugu yeencwadi, njll. - Utitjhera ulayela abafundi aba-4 bonyana bajame emahlangothiniweboda letlasi. Abafundi aba-4 bajama emahlangothini ama-4, umfundi ngamunye uba nesitlabagelo esihlukileko (isimbi, ifengwana, isitlabagelo somvumo begodu namabhlogo amabili). - Utitjhera ukhomba ngesandla sakhe abafundi ngabanye bonyana benze itjhada ngesitlabagelo sabo, isib. Isimbi kwaphela - Itlasi loke litjengisa lapho okuvela ngakhona itjhada ngokukhomba ihlangothi okuvela ngakilo, isib.itjhada lesimbi - Ukuqinisa umqondo wesinceleni nowesidleni, thuma abafundi ababili abajame ngaphambili begodu nangemuva kwetlasi bonyana babuyele esiqhemeni. - Buyelela umsebenzi lo unqophe emetjhadeni avela esinceleni begodu nangesidleni setlasi - Abafundi bathi “esinceleni” itjhada nalivela ngesandleni sesincele begodu “esidleni” itjhada nalivela ngesandleni sokudla	Isimbi Ifengwana Esinye nesinye isitlabagelo somvumo Amabhlogo amabili weengodo	
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) - Abafundi basebenzisa ibhlogo, isib. Khambisa ibhlogo ulihlobanise nesitulo. o Khamba uye emuva/khamba uye phambili o Jama ehlangothini langesidleni sesitulo/ Jama ehlangothini lengesinceleni sesitulo - Jama hlangana neentulo ezimbili - Hlela amanyathelo wesinceleni wodwa begodu newangesidleni wodwa. **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Vumela abafundi baqedelele incwadi yokusebenzela ngokusebenzisa ikhrayoni ukugwala umuda ohlangana nemida, isib. 	Ibhlogo nesitulo Ipara yamanyathelo Incwadi yokusebenzela begodu namakhrayoni	

Iveke yama 38	Isikhathi sokuthintana esiphakanyisiweko: Umsebenzi munye weklasini ohleliweko ohlahlwa ngutitjhere(indulungu) ± 30 imizuzu ngelanga (± 5 yemisebenzi yeembalo ngeveke		
Iinhloko	**Amanothi atlhadlhulako**	**Iinsetjenziswa ezinyulwako**	**Isilinganiso sesikhathi**
4.2 **Ubude**	**Ukumadanisa nokuhlela izinto eziphathekako ngokusebenzisa ilwazimagama lokuhlathulula ubude bento** • **Ukumeda ubude babafundi ngokusebenzisa itheyiphi yokumeda** **Okuphathelene nokusikinyeka komzimba** - Qala umsebenzi wethemu yokuthoma begodu neyesithathu lapho kumedwa khona ubude babafundi kusetjenziswa izandla etjhadini lobude. - Meda ubude babafundi godu. - Utitjhera ubeka itheyibhu yokumeda hlanu kweenthombe zezandla etjhadini lobude. - Ubude babafundi buyamedwa godu. - Yelelisa abafundi bonyana kusetjenziswa isitlabagelo sokumeda esihlelekileko begodu lokhu ngilokho ebekusetjenziswa ngumma nakathunga amarogo. - Njenganje abalingani nobude bezandla ezi-10 kodwana bayimitha li-1 nama-10 cm ubude. - Abafundi bangamadanisa ubude babo. Ngubani omude khulu/omfitjhani khulu ngetlasini? **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Umfundi ulala phasi eflurini, abanye babeka amabhlogo wokwakha (wamasayizi alinganako) ngomuda onqophileko magega nomzimba womfundi. - Utitjhera unikela iinlayelo: “ Yakha okuthileko okudanyana / okufitjhazana kunomngani wakho.	**Itjhadi lobude** itheyibhu yokumeda Itjhadi lobude 	

Iveke yama 39	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa Eziphakanyisiweko.**	**Ukulinganisa Ubude Besikhathi**
1.1 **Ukubala izinto**	• **Ukuqinisekisa ihlathululo yenomboro li- 10** **Zomlomo:** Ukubala izinto zangamalanga ukufika e-10 Ukubala uye phambili begodu uye emuva ukufika e-10 Ukubala okungakahleleki 0-10 **Ukuqinisekisa ukubala ngeenomboro sikhundla**: Utitjhere upaka izinto zokubala ezisi-6 ngereyi. Ukhomba entweni ngayinye lokha nakabala *kokuthoma, kwesibili, kwesithathu, kwesine, kwesihlanu , kwesithandathu*	Iingoma nemilolozelo yeenomboro	ilanga li-1
	Ukuqinisekisa umqondo wokuthi “okunengi” ne “okulidlanzana” Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-10. Buza imibuzo bonyana mangaki amahlandla wokuwahla amanengi khulu, ambadlwana		
	Okuphathelene nokusikinyeka komzimba Vumela abafundi bona: - Batjho umlolozelo weenomboro basebenzise imino elitjhumi. - Babale bona utitjhere ubetha amahlandla amangaki etafuleni nabo bamlingise. - Wahle izandla zabo kalitjhumi. - Bala ukuya ngokulandelana kwamagido lokha abafundi nabehla iintebhisi beqela ngaphakathi nangapphandle kwamawupsi. - Gadanga ngeenyawo ngokulandela amagido alandelanako. - Abafundi abalitjhumi bajama endulungwini omunye nomunye aphathe umgodlana wamabhontjisi, kube nethungana phakathi nendawo. Abafundi abaphosele imigodlana yabo yeembhontjisi ngethungeni baragele phambili kufika e 10. Abafundi kufanele babalele phezulu lokha nabaphoselako. Buyelela umsebenzi kufika lapho woke umfundi athola ithuba loku phosela..	Imigodlana yamabhontjisi nethunga	

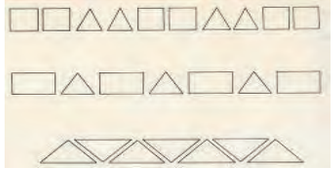
Iveke yama 39	Isikhathi Sokufundisa Esiphakanyisiweko: Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa Eziphakanyisiweko.**	**Ukulinganisa Ubude Besikhathi**
1.1 **Ukubala izinto**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** Hlukanisa abafundi babe ziinqhenyama ezincani - Utitjhere unikela abafundi amaphazeli weenomboro. - Abafundi bathola begodu baphenye woke amakghonakalo. - Abafundi banagaphosa idayisi ukuthola bona bakhe yiphi iphazeli yeenomboro.  	Yenza amaphazeli weenomboro afaka hlangana inomboro u ku 1 kufika e 10	

Iveke yama 39	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa Eziphakanyisiweko.**	**Ukulinganisa Ubude Besikhathi**
1.13 **Ukuhlanganisa nokukhupha**	• **Ukuqinisekiso ukuhlanganisa nokukhupha ngeensombululo ezifika e-10** Ukubala izinto zangamalanga ukufika e-10 Ukubala uye phambili begodu uye emuva ukufika e-10 **Ukuqinisekisa ukubala ngakubili ngokusebenzisa imilolozelo yeenomboro .** **Ukuqinisekisa umqondo wokuthi "okunengi" ne "okulidlanzana"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-10. Buza imibuzo bonyana mangaki amahlandla wokuwahla amanengi khulu, ambadlwana **Okuphathelene nokusikinyeka komzimba** - Utitjhere ubizela abafundi aba 5 ngaphambili begodu aragele phambili nokungezelela ngamunye kufikela enomborweni ye 10. - Abafundi babalela phezulu. Ku-5 naku-1→ 6 (Yithi: Kuhlanu nakunye kukunikela okusithandathu) Okusi-6 naku-1→ 7. Okuli-7 naku-1→ 8 Okubu-8 naku-1→ 9 Okuli-9 naku-1→ 10 - Utitjhere ubuyisela abafundi eenhlalweni zabo begodu abafundi babale baye emuva. 10 khupha 1→ 9 9 khupha 1→ 8 10 khupha 2→ 8	Iingoma nemilolozelo yeenomboro	Ilanga li-1
	Ukusebenzisa izinto eziphathekako ezibusontathu (3-D) Abafundi bahlala emadeni. Umfundi ngamunye unezinto zokubala ezili -10 nesivalo seplastiki. Abafundi abalandele iinlayelo: - Paka izito zokubala ezi 6 esivalweni sakho. Ngeza ngazi 4 phezulu. Zingaki sezizoke? 6 naku 4 → 10 . - Paka 10 izinto zokubala. Khupha 5. Kusele zingaki? njll.	10 izinto zokubala zomunye nomunye umfundi Iimvalo zamaplastiki isib isivalo sesimumathi se-ayisikhrimu	

Iveke yama 39	Isikhathi Sokufundisa Esiphakanyisiweko: Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa Eziphakanyisiweko.**	**Ukulinganisa Ubude Besikhathi**
1.13 **Ukuhlanganisa nokukhupha**	**Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Ukubala izinto ezibu 8 ekaradeni leenthombe . Lokha nawungeza izinto ezi-2 ekaradeni leenthombe, uzakuba namangaki njenganje? - 8 naku 2 → 10. Paka inomboro elinganako yezinto zokubala. - Bala izinto ezili -10 ekaradeni leenomboro. Lokha nawuvala izinto ezi-3 ,ubona zingaki? 10 khupha 3 → 7. Paka inani elifanako lezinto zokubala.	Amafletjhi karada weenthombe afaka hlangana iinomboro 1 ukuya e 10 Izinto zokubala	
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	• **Madanisa bonyana ngiliphi lamabuthelelo amabili onikelwe wona eli:** - **Nengi kuna** - **mbalwa kuna** - **Kulingana na** Ukubala izinto zangamalanga ukufika e-10 Ukubala uye phambili begodu uye emuva ukufika e-10 ngokusebenzisa imilolozelo neengoma zeenomboro. **Ukuqinisekisa ukubala ngakubili ngokusebenzisa imilolozelo yeenomboro .** **Ukuqinisekisa umqondo wokuthi "okunengi" ne "okulidlanzana"** Ukuwahla izandla amahlandla amanengi… JAMA. Ukuwahla izandla amahlandla ambadlwana. Utitjhera uwahla izandla bekube ka-10. Buza imibuzo bonyana mangaki amahlandla wokuwahla amanengi khulu, ambadlwana **Okuphathelene nokusikinyeka komzimba** - Utitjhere ubeka abafundi abasi 6 ndawonyenge ngewupsini begodu afake abanye aba -4 ngakwenye iwupsi . - Utitjhere uyababuza:" Kghani kunabafundi abanengi , abalidlanzana nofana abalinganako ngaphakathi kwenye nenye iwupsi na? - "Abafundi bayathola bona ngiyiphi iwupsi ena "banengi kuna" " dlanzana kuna", na "elinganako" inomboro yaba fundi.	amawupsi ama-2	Ilanga li-1

Iveke yama 39	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa Eziphakanyisiweko.**	**Ukulinganisa Ubude Besikhathi**
1.4 **Ukuhlathulula, ukumadanisa nokuhlela inomboro ngokupheleleko**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Beka-10 izinto zokubala, -6 izinto zokubala na-4 izinto zokubala etafuleni. - Ngaphandle kokubala, qagela/funisela inani lezinto zokubala / amabhlogo etafuleni - Utitjhere uyababuza: " kghani kunezinto zokubala ezingaphezu kwezili-7?" "zipheze zilingane, zidlula kancazana, zilidlanzana, zimbadlwana, zilingene, azikalingani?" - Utitjhere uthi: "Hlola ipendulo yakho ngokubala izinto zokubala." "Ukuqagela/ukufunisela kwakho bekuseduze kangangani?"	Izinto zokubala	
	Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D) - Utitjhere ubatjengisa amakarada amabili anenani elihlukileko lamadothi / lamaqatjhaza neenthombe kiwo. - Abafundi abamadanise amakarada aneenthombe namaqatjhazi begodu bakhombe / babone "okunengi kuna", "okuncani kuna" noku "lingana na".	Amakarada amabili anenani elihlukahlukileko lamaqatjhazi/ lamadothi neenthombe kiwo	

Iveke yama 39	**Isikhathi Sokufundisa Esiphakanyisiweko:** **Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)**		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa Eziphakanyisiweko.**	**Ukulinganisa Ubude Besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	**Ukuhlathulula izinto ezimbili nofana ngaphezulu ezibusobuntathu 3-D lokha uzihlobanisa enye kwenye** • **Qinisekisa Isincele ne Sokudla** **Okuphathelene nokusikinyeka komzimba** - Utitjhere ubeka iintepe zangakwesesincele nezangakwesokudla zizombeleze itlasi loke.  - Abantwana bayakhasa ngokukhambisa umkhono munye nedolo linye ngesikhathi esisodwa - Bakhamba phezulu kwazo isibonelo lokha nabaya esikotlelweni sokuhlamba.  Utitjhere ubophela isitokana sewula ebovu esihlakaleni sangesidleni somfundi ngamunye . Utitjhere unikela iinlayelo. - Phakamisa umlenze wakho wangesinceleni. - Beka inyawo lakho langesidleni phezu kwesitulo. - Thinta idolo lakho langesinceleni ngendololwani yakho yangesidleni. - Dosa indlebe yakho yangesandleni sesincele ngesandla sakho sokudla. - Beka isandla sakho sangesidleni phezu kwehlombe lakho langesinceleni, begodu nesandla sakho sangesinceleni phezu kwehlombe lakho langesidleni ngesikhathi esisodwa. - Zigone wena ngokwakho (udlule umuda waphakathi ongaphakathi.)	Ummerego wenyawo owenziwe ngephepha “lesincele’ ne “lesokudla” Isitokana se wulu ebovu	Ilanga li-1

Iveke yama 39	Isikhathi Sokufundisa Esiphakanyisiweko: Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa Eziphakanyisiweko.**	**Ukulinganisa Ubude Besikhathi**
3.1 **Ubujamo, ukujayeza nokubukela**	**Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Utitjhere ubeka amakorikotana ali-7 phezu kwetafula. - Abafundi abatjho bona ngiyiphi inomboro engesinceleni saka ku -3, ngiyiphi inomboro engesidleni saka si -6, ngiziphi iinomboro eziphakathi kwaka ku 3- nesi -6. - Ngiyiphi inomboro esekuthomeni begodu ngiyiphi esekugcineni.  - Utktjhere ubeka abonompopi / iinkoloyana aba/ ezi 3 nezambatho nofana umbala obonakala kuhle phezu kwe tafula. - Ubuza imibuzo efana nokuthi: o Ngimuphi unompopi/ ikoloyana engesinceleni ? o Ngimuphi unompopi/ ikoloyana engesidleni? o Ngimuphi unompopi/ ikoloyana ephakathi ? Ngimuphi unompopi/ ikoloyana esekuthomeni / esekugcineni? **Sebenzisa amajamo nofana iinthombe ezipheze ziphatheke ezibusobubili (2-D)** - Ngesikhathi **SobuKghwari obuBonakalako**, abafundi benza umgadangiso wepende ngokusebenzisa izandla zabo zangesinceleni nezangesidleni. - Sika begodu unamathisele etjhidini/ephepheni elitjengisa inyawo langesinceleni nelangesidleni.	Amakorikotana anomboriweko. Abonompopi nofana iinkoloyana ezintathu.	
2.1 **Amaphetheni weJiyomethri**	• **Ukuzakhela amaphetheni wakho** **Ukusebenzisa izinto eziphathekako ezibusontathu (3-D)** - Abafundi bathoma ngokukopulula amaphetheni bawasusela emaphethenini abanikelwe wona. - Ekugcineni abafundi bazakhela amaphetheni wabo begodu bahlathulule amaphetheni wabo. 	Amakarada wobujamo namaphetheni	Ilanga li-1

Iveke yama 39	Isikhathi Sokufundisa Esiphakanyisiweko: Isifundo sinye esihleliweko sangetlasini esirholwa ngutitjhere (indulungu) ± 30 yemizuzu ngelanga (± 5 imisetjenzana yeeMbalo ngeveke)		
Iinhloko	**Amanothi atlhadlhulako.**	**Iinsetjenziswa Eziphakanyisiweko.**	**Ukulinganisa Ubude Besikhathi**
2.1 **Amaphetheni weJiyomethri**	**Umsebenzi wephegi bhodi:** Umfundi akathome ngokusebenzisa isandla sakhe sokudla bese alandelise ngesamdla sangesincele, bese kube ngizozombili ukubeka amaphegi ephegi bhodini - Utitjhere utjela abafundi bona bawabeke kuphi amaphegi isib. o Ereyini *elingaphezulu*. o Ereyini *elingaphasi.* o Ngehlangothini *lesincele*. o Ngehlangothini *lokudla.* o *Phakathi nendawo*. Vumela abafundi bona: - Ukwenza amajamo ephegi bhodini ngamaphegi anemibalabala. - Utitjhere utlama iphetheni elula ngama phegi ephegi bhodini yakhe, begodu abafundi bakopulula iphetheni yakhe bayikopululele emaphegi bhodini wabo.	Iphegi bhorodo namaphegi. Amaphetheni lapho abafundi kufanele bakopulule khona	

Iveke yama 40	Sebenzisa iimveke ezili 40 ukutjheja ubuthakathaka bomqondo begodu / nofana iinqabi zokufunda ezitholakeleko.	
Okumumethweko	**Isihloko**	**Isilinganiso sokuhlola**
Iinomboro , ama-Opharetjhini Nobudlelwana	**1.1 Ukubala**	Ukulinganisa nokubala okungakahleleki ukufika e -10 (iingoma zeenomboros nemilolozelo ifakwe hlangana ukuthuthukisa umqondo wenomboro)
		Ukubala uye emuva naphambili (0-10)
		Ukubala ngakubili (Iingoma nemilolozelo yeenomboro)
		Ukuzwisisa umqondo wokuthi “kunengi nolidlanzana” (ukuwahla)
		Ukuzwisisa bona ngiwaphi amahlandla wokuwahla abe manengi /mancani , manengi khulu, / mancani khulu
		Ukubona iinthombe zeenomboro nama karada wedothi /weqatjhazi kusuka e 0-10.
		Ukwazi amatshwayo weenomboro 8, 9, 10 begodu ne 0.
		Ukukhumbula amagama weenomboro bunanae, lithoba, netjhumi nelize.
		Ukuqedelela ukulandelana kweenimboro okulula kusuka eenomborweni 1-10.
	1.4 Ukuhlathulula, ukumadanisa begodu nokuhlela iinomboro	Ukukhumbula nokubona iinomboro ebujamweni obujayelekileko – isib. Unyaka, iregista..
		Ukuhlukanisa phakathi kokunengi, kuncani, kuyalingana, okunengi khulu nokumbalwa khulu kufikela enokmborweni Ii 10.
		Ukuzwisisa iinomboro sikhundla –wokuthoma, wesibili, wesithathu, weswine, wesihlanu, nowesithandathu.
	1.6 Amathekiniki wokurarulula umraro	Ukusebenzisa izinto eziphathekako Ukuhlathulula ukucabanga kwakhe ngamagama begodu nangokugwala nofana ukusebenzisa izinto eziphathekako
	1.7 & 1.13 Ukuhlanganisa nokususa/ ukukhupha.	Ukurarulula imiraro yokuhlanganisa nokukhupha efaka hlangana iinomboro kufika e 10 ngehloko
Amaphetheni ama-Fanktjhini & Aljibra	**2.1 Amaphetheni weJiyomethri**	Ukukopulula , ukungezelela begodu nokutjama amaphetheni wakhe ngokulalela.
		Ukuzwisisa umdlalo we “ hopskotjhi”
Isikhala noBujamo (Jiyomethri)	**3.1 Ubujamo, ukuzijayeza nokubukela**	Ukwazi unqondo othi eduze kwe, hlangana ne, nophakathi isincele begodu sokudla.
		Ukuzwisisa umqondo:phambili nemuva, phezulu naphasi, ukuya phezulu nokuya phasi, ngesinceleni nangesidleni.
	3.2 Izinto ezinobuso obuntathu (3-D) bedodu **3.3 Amabumbeko anobuso obubili (2-D)**	Ukukghona ukwakha okungasenani iphazeli yeentokana ezima 24
		Ukukhumbula nokubona iindulungu, uncantathu, isikwere, uncamane.
	3.4 Isimethri	Ukukhumbula umuda wesimethri eziNtweni
Ukumeda	**4.2 Ubude**	Ukuzwisisa bona izinto nazo ziyamedwa ngokusebenzisa itheyibhu yokumeda

Ukuphatha Idatha	**5.1** **Ukubuthelela nokuhlela izinto**	Kghona ukubuthelela, ukuhlela ngamananeko ukugwala, ukufunda nokujamisela, (tsenga) izinto ukuya ngakhunye okuphawulekako .
	5.2 **Ukujamisela ibuthelelo lezinto ezihleliweko**	
	5.3 **Ukucocisana nokuletha umbiko ngezinto ezisebuthelelweni elihleliweko.**	

ISAHLUKO 4: NOKUHLOLA

4.1 ISINGENISO

Ukuhlola yikambiso eragela phambili etlanyiweko yokuqala, ukubuthelela kanye nokurhumutjha ilwazi elimayelana nokusebenza kwabafundi, ngokusebenzisa iindlela ezihlukeneko zokuhlola. Kufaka hlangana amagadango amane:

- ukuhloza kanye nokubuthelela ubufakazi bokuzuza,
- ukuhlola ubufakazi lobu:
- ukutlola phasi lokho okutholakeleko bese
- kusetjenziswa ilwazi leli ukuzwisisa begodu nokusiza ekuthuthukiseni umfundi ukuze kwenziwe ngcono ikambiso yokufunda nokufundisa.

Ukuhlola kufanele kwenziwe ngazo zombili iindlela kube ngokungakahleleki (Ukuhlola mayelana nokufunda) nangokuhlelekileko (Ukuhlola kokufunda). Kizo zombili iindawezi umbiko obuyako kufanele unikelwe abafundi ukwenza ngcono ilemuko lokufunda.

EsiGabeni esisiSekelo, amathekhiniki aqakathekileko wokuhlola okuhlelekileko begodu nokungakahlelekiko alitjhejo lakatitjhere, ukucocisana ngokomlomo, ukutjengisa ngokwenzekako, begodu nemitlolo erikhodiweko. Ukuhlola kweGreyidi R kufanelel kube ngomlomo begodu kwenzeke.

4.2 UKUHLOLA OKUNGAKAHLELEKI NOFANA UKUHLOLWA KWANGAMALANGA

Ukuhlola okumayelana nokufunda kunomnqopho wokuragela phambili ngokubuthelela ilwazi ngalokho umfundi akuzuzileko okungasetjenziswa ukwenza ngcono ukufunda kwabo.

Ukuhlola okungakahleleki kutjheja iragelo phambili labafundi okwenziwa ngamalanga. Lokhu kwenziwa ngendlela yokutjheja, ukucocisana, ukutjengisa ngendlela ebonakalako, ukukhulumisana ngendlela engakahleleki ngetlasini, njll. Akukafaneli kubonwe njengento ehlukileko kunemisebenzi efundwako leyo efundwa ngetlasini. Ukuhlola okungakahleleki kurhebha utitjhere ukutjheja ituthuko yomfundi nokwenza imiyalelo ngesiqunto samalanga woke. Ukuhlola okuhlelekileko kusebenza:

- ukunikela umbiko obuyako ebafundini
- ukwazisa ukutlamela ukufundisa

kwesinye isikhathi utitjhere angalondoloza irhelo lokuhlola nofana aberegise itjhejuli yokuqala njengendlela yokurekhoda ikambiso yomfundi. Kwesinye isikhathi umfundi nofana utitjhere angatshwaya umsebenzi. Noma kunjalo ukuhlola okungahleleki akubi yingcenye yerekhodi elihkelekileko lomfundi. Imiphumela yemisebenzi ehlolwa ngamalanga ayitjhejwa nakukhutjhulwa abafundi kanye neenkambisweni zeentifikeyidi.

4.3 UKUHLOLA OKUHLELEKILEKO

Yoke imisebenzi ehlolwako ebumba ihlelo elihlekileko lokuhlola mayelana nomnyaka ithathwa njengokuhlola okuhlelekileko. Imisebenzi yokuhlola okuhlelekileko iyatshwaywa bese itlolwa phasi ngutitjhere ngendlela ehlelekileko mayelana neragelo phambili kanye nomnqopho wesitifikeyidi. Ukuhlola okuhlelekile kunikela abotitjhere indllela yerherho yokuhlunga ukuthi abafundi bathuthuka bunjani ngegreyidini ngayinye begodu nasesifundweni esithize.

Utitjhere angaqala kuphela abafundi abangaba li 10 ngesikhathi sinye, ngakho ke imisebenzi yokuhlola okuhlelekileko izokwenzeka khulu ekuhlanganeni okunqophekileko kweenqhema ezincani begodu kuzothatha amalanga ukuhlola ikumba yoke yokufunda. Yoke imethiriyali neensetjenziswa lezo abafundi abanokuziberegisa kufanele zibe khona njengasemihleni, (izinto zokubala, amatjhadi weenomboro,njll) lindlela zokuhlola ezisetjenziswako kufanele zilingane

neminyaka begodu nezinga letuthuko elifanelekileko. Ubujamo bemisebenzi le kufanelel bulingane nokumumethweko kwesifundo ngeendlela ezihlukeneko.

Imihlobo ehlukeneko yokuhlola (ukuqala, okomlomo, okwenziwako nokutlolwako) kufanelel kuberegiswe ukunikela umfundi ngamunye ithuba lokutjengisa abangakwenza. Lokhu kungombana abanye abafundi bakghona masinyana ukubonisa lokhu abakwaziko kokhunye ukuhlola okuhlelekileko. Isibonelo,

- Abanye abafundi abanekghono lokufunda bayazazi iiMbalo.
- Abanye abafundi ngeze babe sezingeni elamukelekileko lokukghona ngelimini lokufunda nokufundisa.

Imisebenzi yokuhlola ngembalweni kufanele bafake imisebenzi begodu nemisetjenjana engakasekelwa elimini, begodu engakasimi ekufundeni, ukuveza isiphiwo samambala sabafundi laba.

Noma kunjalo, iyalelo lalokho okuhlolwako lifanele liqalwe. Ilwazi elithileko begodu, amakghono ahloleka kuhle ngeendlela ezithileko zokuhlola. Imihlobo ehlukeneko yokuhlola ilungele amakghono begodu nemiqondo etlhogekako eenhlokwaneni ezihlukahlukene neenqhema zeminyaka ezihlukeneko. Kuyarhelebha ukusebenzisa irhelo lokuhlola ukuhlola ukulinganisa abafundi emagreyidini aphasi. Irubrikhi ingaberegiswa ukuhlola ikghono lomfundi ekurarululweni kwemiraro.

4.4 IHLELO LOKUHLOLA OKUHLELEKILEKO

Imisebenzi yokuhlola okuhlelekile kweeMbalo kuhlanganisa iinhlokwana ezinengi zeeMbalo. Imisebenzi yokuhlola ngomnyaka kufanele ifake koke okumumethweko begodu neenhloko, kodwana akusikho koke ngeendingweni zekharikhyulamu ezizokuhlolwa ngokomthetho nofana ukubika ngokomthetho ngalokho. Iinomboro, imisebenzi nobuhlobo kwenza 60% wezibalo ngegreyidini R. Lokhu kutjho bona ama 60% wokuhlola okuhlelekile ngethemu ngayinye enyakeni kufanele kuqalisiswe eeNomborweni, emisebenzini begodu nobuhlobo.

Umsebenzi ngamunye wokuhlola okuhlelekile akukafaneli bona ubonwe njengesehlakalo esisodwa nofana ukulingwa. Ezinye iinquntu zesilinganiso zingahlolwa ngasikhathi sinye, kodwana ezinye zizahlolwa esikhathini esihlukile. Isibonelo lokha ikghono labafundi lokubala ngokweqa lihlolwa, ikghono labo ukwenza okulandelako lingahlolwa emsebenzini ofanako nofana isehlakalo:

- Uqedelela ilandelano lokubala
- Ufunda nokutlola amatshwayo weenomboro
- Ukubala

Noma kunjalo, lokha umsebenzi wokuhlola umumethe kokubili ukurarululwa kwemiraro ngokweenqhema/ nangokuhlanganyela, begodu nokuhlola ikghono labafundi lokulinganisa umthamo;kuvamile ukuthi amahlangothi wobujamo weeMbalo azokuhlolwa eenkathini ezihlukeneko begodu ngeendlela ezahlukeneko.

4.5. UKUREKHODA NOKUBIKA

Ukurekhoda yikambiso lapha utitjhere atlola phasi khona amazinga wokusebenza komfundi ekuhloleni umsebenzi othileko. Kutjengisa iragelo phambili lomfundi mayelana nokuzuza ilwazi njengombana kuquntwe ngakhona kumThethomgomo wesiTatimende seKharikhyulamu kanye nokuHlola. Amarekhodi wokusebenza komfundi kufanele anikele ubufakazi beragelo phambili lemiqondo hlangana negreyidi nokulungela kwakhe ukuragela phambili nanyana ukudluliselwa kugreyidi elandelako. Ukurekhodwa kokusebenza komfundi kufanele kusetjenziswe ukuqinisekisa iragelo phambili elenziwa botitjhere nabafundi ekambisweni yokufunda kanye nokufundisa.

Ukubika yikambiso yokukhulumisana ngokusebenza komfundi kubafundi, kubabelethi, esikolweni kanye nabanye abahlanganyeli. Ukusebenza komfundi kungabikwa ngeendlela ezinengi. Lokhu kufaka hlangana amakarada wemibiko, imihlangano yababelethi, amalanga wokuvakatjhela iinkolo, amakhonferensi wabafundi nabotitjhere,

imitato, iincwadi, iincwadi zetlasi nanyana zesikolo, njll. Abotitjhere kiwo woke amagreyidi babika ngamaphesende kuneemfundo. Amazinga ahlukeneko wokuzuza kanye namazinga wamaphesende akhambisana nawo atjengisiwe kilethebula engenzasi.

AMAKHOWUDU NAMAPHESENDE WOKUREKHODA NOKUBIKA

IKHOWUDU YAMANANI	UKUHLATHULULWA KWEKGHONO	AMAPHESENDE
7	Uphumelele kuhle tle	80 – 100
6	Uphumelele ngendlela ethokozisako	70 – 79
5	Uphumelele ngamandla	60 – 69
4	Uphumelele ngokwaneleko	50 – 59
3	Uphumelele ngokulingeneko	40 – 49
2	Uphumelele ngendlela ephasi	30 – 39
1	Akakaphumeleli	0 - 29

4.6 OKUVAMILEKO

Umtlolo lo kufanele ufundwe ngokukhambisana nalokhu:

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 ISIBONELO SAMAHLELO WOKUHLOLA OKUHLELEKILEKO SAMAGREYIDI R

Isibonelo samarhelo wokuhlola ukuhlola wamaGreyidi R anikelwe ngenzasi. Umnqopho kurhelebha abotitjhere ukuhlela nokwenza ukuhlola okuhlelekileko ngendlela eragako.

IGREYIDI R Irhelo lokuhlola leThemu yoku -1				
Isifundo sokumumethwe	**okumumethweko**	**linlinganiso zesiquntu**	**√ or x**	**Imibono**
Iinomboro, ama-Opharetjhini nobudlelwano	Ukubala	Ukulinganisa nokubala ngehloko kufikela ku 5 (umvumo weenomboro nemidunduzelo kufakiwe ukuthuthukisa umqondonomboro)		
	Ukukhumbula iinomboro	Ukulemuka iinombore ngebujameni obujayelekile. Isib. umnyaka, irejista		
		Ukuzwisisa iinomborosikhundla (isib. ngesikhathi sangamalanga sokuya endlwaneni)		
	Ukubona ngelihlo lenqondo iinomboro	Ukuzwisisa kunye nakunye okukhambelanako (itjhadi labasizi ngesikhathi sokuphumula		
	Ukubona nokuhlathulula iinomboro ezizeleko	Ukufanisa iinomboro zeenthombe namakarada wamaqatjhazi afaka inomboro yokuthoma		
		Wazi amatshwayo wenomboro 1		
		Ulemuka ibizo lenomboro yinye		
	Ukurarulula imiraro	Uberegisa iinsetjenjiswa eziphathekako Uhlathulula ukucabanga kwakhe ngamagama nangokugwala nofana izinto eziphathekako		
Amaphetheni namafanktjhini & Aljibra	Ukukopha, ukulula nokutlama amaphetheni wakho	Ufanisa amaphetheni ngebhoduluko		
		Ukukhopha, ukungezelela nokukwakha amaphetheni wakho		

IGREYIDI R Irhelo lokuhlola leThemu yoku -1				
Isifundo sokumumethwe	**okumumethweko**	**linlinganiso zesiquntu**	**√ or x**	**Imibono**
Isikhala nobujamo	Ukukhumbula, ukubona nokutjho izinto zobusobuntathu (3-D)	Ulemuka, afanise kunye nokupha amabholo amabizo		
		Ulemuka, afanise kunye nokupha amabhoksi amabizo		
	Ukulemuka, ukufanisa nokutjho ubujamo bobusobubili (2-D), iinthombe	Ulemuka, afanise abe atjho amatshwayo wakhe, amatshwayo wabakhozi begodu nebizo lekomba		
		Ukwakha iphazeli yeenquntu ezi 6		
		Ukutjengisa ikghono lokuhlukanisa hlangana nezinto ezinghaphambili “ezinqotjhiweko” nalezo ezingemuva “ezingakanqotjhwa”		
	Ubujamo bejiyomethri	Ukufanisa alemuke indulungu		
		Ukufanisa alemuke uncantathu		
		Ukufanisa alemuke isikwere		
	Ukuhlathulula, ukuhlukanisa nokumadanisa izinto zo busobuntathu (3-D) ngokuya nge:	Ukumadanisa bona ngiziphi izinto ezimbili ezinikelweko eziikulu, ezincani, eziihulu khulu, ezincani khulu.		
		Ukuhlukanisa izinto ngo: Ubukhulu - okukhulu nokuncanil,		
		Umbala – imibala esiseko (bomvu,sarulani, lihlaza		
		Ubujamo – indulungu, uncantathu nesokwere		
		Into egedekako		
		Into etjhelelako		
	Ukubona umuda wesimethri ku	Ukulemuka umuda wesimethri kuwe		
	Ubudlelwano obuphathelene nesikhala: Ubujamo bezinto ezimbili nofana ezinengi ezinobudlelwane nomfundi	Ukwazi phambi kwe, emuva		
		Ukwazi phezu kwe, phezulkwa,ngaphasi kwa, ngaphasi		
		Ukwazi ngaphakathi, ngaphandle		
		Ukwazi phasi, phezulu		
	ikombatjhuba	Ukuzwisisa imiqondo: kwaphambili, kwangemuva, ngaphambili, ngemuva		
Isilinganiso	Isikhathi	Ukusebenzisa amagama anjengelanga, ukulunga, ukukhanya nobumnyama, ekuseni, ntambama, ebusuku ukuhlathulula isikhathi semini		
		Ukulandelanisa izehlakalo ezenzeka njalo ngepilweni yakhe yangemihla (Ihlelo Langemihla)		
		Ukutjengisa nokulemuka amalanga weveke, iinkhathi zonyaka, nobujamo bezulu		
		Ukwazi ilanga lakho lamabeletho		
	Ubude			
Ukuphatha idatha	Ukubuthelela, ukuhlukanisa, ukugwala, ukutlola begodu nokujamela idatha	Ukukghona ukubuthelela, ukuhlukanisa, ukugwala, ukutlola nokujamela (ukuhlaziya) izinto ngokuya ngomfanekiso munye		

ISILINGANISI SOKUGCINA:

IGREYIDI R Irhelo lokuhlola iThemu yesi-2				
Isifundo sokumumethwe	**okumumethweko**	**Iinlinganiso zesiquntu**	**√ or x**	**Imibono**
Iinomboro, ama-Opharetjhini nobudlelwano	Ukubala	Ukulinganisa nokubala ngehloko kufikela ku 7 (umvumo weenomboro nemidunduzelo kufakiwe ukuthuthukisa umqondonomboro)		
		Ukubalela emuva naphambili (1-4)		
		Ukuzwisisa imiqondo " okunengi nokuncani" (ukuwahla)		
	Ukulemuka iinomboro	Ukulemuka iinombore ngebujameni obujayelekile – isib. umuzi inomboro, irejista yesiphande		
	Ukubona akuhlathulula iinomboro ezizeleko	Ukubona iinomboro zeenthombe namakarada wamaqatjhazi		
		Ukwazi amatshwayo weenomboro 1, 2, 3, 4		
		Ukulemuka amabizo weenomboro kubili, kuthathu, nakune		
	Ukubona ngelihlo lenqondo iinomboro	Ukuzwisisa kunye nakunye okukhambelanako (itjhadi labasizi ngesikhathi sokuphumula		
		Ukuhlukanisa phakathi kokunengi, okuncani nokulinganako begodu nokumbadlwana ukufikela ko 4		
		Ukulemuka iinhlamvu zemali zeSewula Afrika		
	Ukurarulula imiraro	Uberegisa iinsetjenjiswa eziphathekako Uhlathulula ukucabanga kwakhe ngamagama nangokugwala nofana izinto eziphathekako		
		Ukurarulula ngomlomo umraro wokuhlanganisa nokuhlukanisa ukufikela ko 4		
Amaphetheni namafanktjhini & Aljibra	Ukukhopha, ukulula nokutlhama amaphetheni wakho	Ukukhopha, ukungezelela nokukwakha amaphetheni wakho (izinto, ubujamo neenhlamvu zemali)		
Isikhala nobujamo	Ukulemuka, ukufanisa nokutjho ubujamo babobusobubili (2-D), iinthombe	Ukwakha iphezele yeenquntu ezingaba 2		
		Ukubonisa ikghono lokuhlukanisa phakathi kwezinto "ezingaphambili nezingemuva" (buyelela uhlole)		
	Ubujamo begeometry	Ukulemuka, ukufanisa nokutjho uncantathu		
		Ukuzwisisa iindlela ezingatjhugulukiko zikancantathu ukubumbeka okutjhejiweko)		
	Ukuhlathulula, ukuhlukanisa nokumadanisa izinto babobusontathu (3-D) ngokuya nge:	Ukumadanisa bona ngiziphi izinto ezimbili ezinikelweko eziikulu, ezikudlwana, ezincani/ ezincani khulu.		
		Ukuhlukanisa izinti nge Ubukhulu – okukhulu nokuncani		
		Imiibala - (bomvu, sarulani, lihlaza sasibbhakabhaka nokuhlaza satjani)		
		Ubujamo		
	Ukwakha izinto ze 3D usebenzisa iinsetjenziswa eziphathekako	Ukuhlola ngamabhlogo wokwakha		
	Ukubona umuda wesimethri e:	Ukubona umuda wesimethri kimi nasebhodulukweni lakho		
		Ukukghona ukweqa umuda ophakhathi ukuya kwelinye ihlangothi		
	Ubudlelwano obuphathelene nesikhala:	Ukuzwisisa ubujamo bezinto ezimbili nofana ezinengi ezinobudlelwane nomfundi - phezu, ngaphasi		

IGREYIDI R Irhelo lokuhlola iThemu yesi-2				
Isifundo sokumumethwe	**okumumethweko**	**linlinganiso zesiquntu**	**√ or x**	**Imibono**
Ukumeda	Isikhathi	Ukutjengisa nokulemuka amalanga weveke, iinkhathi zonyaka, netjhadi lobujamo bezulu (imivumo nemidunduzelo – hlola godu)		
		Ukwazi ilanga lakhe lamabeletho (hlola godu)		
	Ubude			
Ukuphatha idatha	Ukubuthelela, ukuhlukanisa, ukugwala, ukutlola begodu nokujamela idatha	Ukukghona ukubuthelela, ukuhlukanisa, ukugwala, ukutlola nokujamela (ukuhlaziya) izinto ngokuya ngomfanekiso munye		

ISILINGANISI SOKUGCINA:

IGREYIDI R Irhelo lokuhlola iThemu yesi-3				
Isifundo sokumumethwe	**okumumethweko**	**linlinganiso zesiquntu**	**√ or x**	**Imibono**
Iinomboro, ama-Opharetjhini nobudlelwana	Ukubala	Ukulinganisa nokubala ngehloko kufikela ku 7 (umvumo weenomboro nemidunduzelo kufakiwe ukuthuthukisa umqondonomboro)		
		Ukubalela emuva naphambili (1-7)		
		Ukuzwisisa bona ngiwaphi amawahlo amanengi/amancani		
	Ukulemuka iinomboro	Ukulemuka iinombore ngebujameni obujayelekile -isib. ubudala, irejista (hlola godu)		
	Ukubona ukuhlathulula iinomboro ezizeleko	Ukufanisa iinomboro zeenthombe namakarada wamaqatjhazi ukufikela ku 7		
		Ukwazi iphawu leenomboro 5, 6, 7		
		Ukulemuka amabizo weenomboro hlanu, ssithandathu, likhomba		
	Ukubona ngelihlo lenqondo iinomboro	Ukuhlukanisa phakathi kobunengi, ubuncani, okulinganako nokumbadlwana ukufika ku 7		
		Ukulemuka umbala begodu neembandana ezihlukeneko emalini yephepha yangeSewula Afrika		
	Ukurarulula imiraro	Uberegisa iinsetjenjiswa eziphathekako Uhlathulula ukucabanga kwakhe ngamagama nangokugwala nofana izinto eziphathekako		
		Ukurarulula ngomlomo umraro wokuhlanganisa nokuhlukanisa ukufikela ko 7		
Amaphetheni namafanktjhini & Aljibra	Ukukhopha, ukulula nokutlhama amaphetheni wakho	Ukukopulula, ukungezelela nokukwakha amaphetheni wakho		

IGREYIDI R Irhelo lokuhlola iThemu yesi-3				
Isifundo sokumumethwe	**okumumethweko**	**linlinganiso zesiquntu**	**√ or x**	**Imibono**
Isikhala nobujamo	Ukulemuka, ukufanisa nokutjho ubujamo obubusobubili (2-D), iinthombe	Ukwazi ukwakha iphezele yeenquntu ezingaba li 12		
	Ubujamo begeometry	Ukulemuka, ukufanisa nokutjho isikwere		
		Ukuzwisisa iindlela ezingatjhugulukiko zobujamo obufundiweko ukufika nje (Ibumbeko elitlhogonyelwako)		
	Ukwakha izinto ze 3D usebenzisa iinsetjenziswa eziphathekako	Ukwakha ususela esibonelweni somakhiwo onikelwe sona		
		Ukukopulula umakhiwo awususela emtlameni nofana ekaradeni lesithombe		
	Ubudlelwano obuphathelene nesikhala	Ukuzwazi ubujamo bezinto ezimbili nofana ezinengi ezinobudlelwane zona zodwa -Phambi kwe, ngemuva, phezu kwe, ngaphezu, ngaphasi, phasi, okungaphasi, eqadi kwe, phakathi, esinceleni nangesidleni		
		Ukwenza iinyeleliso epegbodini		
	Ikombatjhuba	Ukwazi indlela ngetjhadini lesungulo		
Ukumeda	Ubude	Ukulinganisa ubude bezinto ezihlukeneko		
	Ubungako	Ukuzwisisa imiqondo “ukukhanya, ubudisi, ubulula, okulula khulu, okubudisi khulu”		
	Umthamo	Ukuzwisisa imiqondo “ akunalitho, ukuzala, ukudlula, ngaphasi kwa ”		
Ukuphatha idatha	Ukubuthelela, ukuhlukanisa, ukugwala, ukutlola begodu nokujamela idatha	Ukukghona ukubuthelela, ukuhlukanisa, ukugwala, ukutlola nokujamela (ukuhlaziya) izinto ngokuya ngomfanekiso munye		

ISILINGANISI SOKUGCINA:

IGREYIDI R Irhelo lokuhlola iThemu 4				
Isifundo sokumumethwe	**okumumethweko**	**Iinlinganiso zesiquntu**	**√ or x**	**Imibono**
Iinomboro, ama-Opharetjhini nobudlelwana	Ukubala	Ukulinganisa nokubala ngehloko kufikela e 10 (umvumo weenomboro nemidunduzelo kufakiwe ukuthuthukisa umqondonomboro)		
		Ukubalela emuva naphambili (0-10)		
		Ukubala ngakubili (umvumo weenomboro nemidunduzelo)		
		Ukuzwisisa imiqondo “ yokunengi nokuncani” (ukuwahla)		
		Ukuzwisisa bona ngiwaphi amawahlo amanengi/amancani		
	Ukulemuka iinomboro	Ukulemuka iinombore ngebujameni obujayelekile -isib. ubudala, irejista		
	Ukubona akuhlathulula iinomboro ezizeleko	Ukubona iinomboro zeenthombe namakarada wamaqatjhazi 0-10		
		Ukwazi iphawu leenomboro 8, 9, 10 ne 0 begodu		
		Ukulemuka amabizo weenomboro bunane, lithoba. Itjhumi nelize		
		Ukuqedelela ukulandelana kweenomboro ezilula ukusukela ku 1-10		
	Ukubona ngelihlo lenqondo iinomboro	Ukuhlukanisa phakathi kobunengi, ubuncani, okulinganako okukhnengi khulu nokuncani khulu ukufikela enomborweni ye 10		
		Ukuzwisisa iinomborosikhundla iinomboro – yokuthoma, yesibili, yesithathu, yesine, yesihlanu neyesithandathu		
	Ukurarulula imiraro	Uberegisa iinsetjenjiswa eziphathekako Uhlathulula ukucabanga kwakhe ngamagama nangokugwala nofana izinto eziphathekako		
		Ukurarulula ngomlomo umraro wokuhlanganisa nokuhlukanisa ukufikela e- 10		
Amaphetheni namafanktjhini & Aljibra	Ukukhopha, ukulula nokutlhama amaphetheni wakho	Ukukhopha, ukungezelela nokukwakha amaphetheni wakho alelwako		
		Ukuzwisisa umdlalo “hop-skotjhi”		
Isikhala nobujamo	Ukulemuka, ukufanisa nokutjho ubujamo Obubusobubili (2-D)	Ukwazi ukwakha iphezele yeenquntu ezingaba ma 24		
	Ubujamo bejiyomethri	Ukulemuka, nokufanisa isikwere, uncantathu, isikwere noncamane		
	Ukulemuka umuda wesimethri e:	Ukulemuka umuda wesimethri ezintweni		
	Ubudlelwano obuphathelene nesikhala	Ukwazi imiqondo eqadi kwe, hlangana naphakathi, esinceleni nangesidleni		
		Ukughona ukwenza umsebenzi othuthukileko we peji-bhodi		
	Ikombatjhuba	Ukuzwisisa imiqondo: phambili nangemuva, phasi naphezulu, ngaphezulu nangaphasi, ngesinceleni nangesidleni		
Ukumeda	Ubude	Ukuzwisisa bona izinto nazo ziyalinganiswa kuberegiswa isilinganisi		
Ukuphatha idatha	Ukubuthelela, ukuhlukanisa, ukugwala, ukutlola begodu nokujamela idatha	Ukukghona ukubuthelela, ukuhlukanisa, ukugwala, ukutlola nokujamela (ukuhlaziya) izinto ngokuya ngomfanekiso munye		

ISILINGANISI SOKUGCINA: