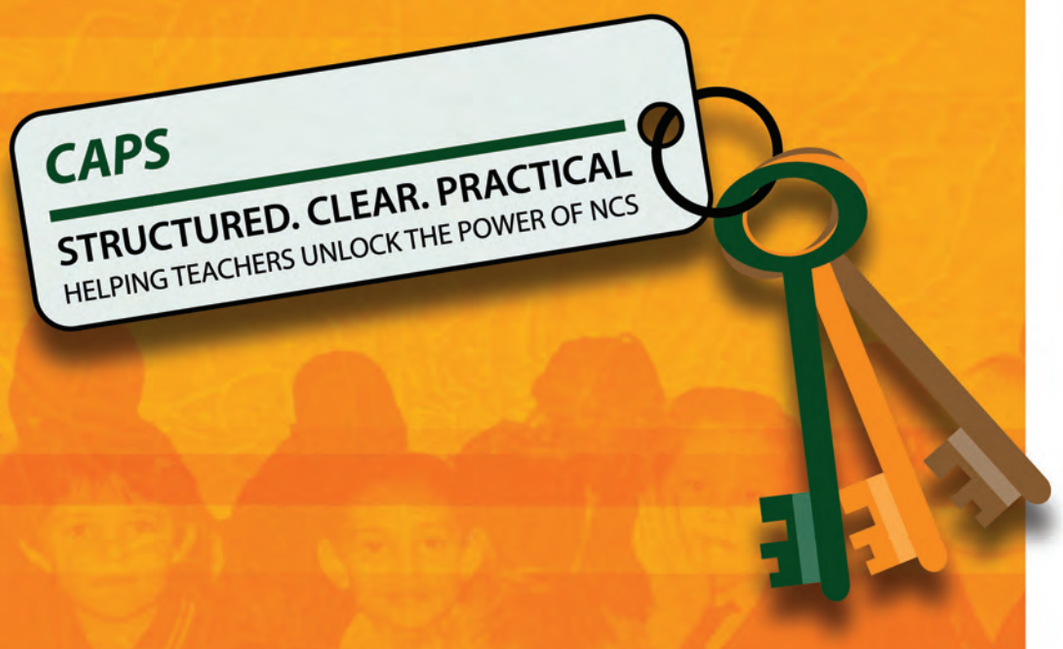
SETSWANA MATHEMATICS

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

PEGELO YA PHOLISI YA KHARIKHULAMO LE TLHATLHOBO

MOPHATO R

DIPALO

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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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KGAOLO 1: MATSENO LE LEMORAGO

1.1 LEMORAGO

Pegelo ya Kharikhulamo ya Bosetšhaba Mephato R - 12 (NCS) e tlhalosa pholisi ya kharikhulamo le tlhatlhobo mo dikolong ka tlhomamo.

Go tokafatsa tiragatso e, Pegelo ya Kharikhulamo ya Bosetšhaba e ne ya mametlelelwa ka dimametlelelo tse di tla diragadiwang ka Ferikgong 2012. Tokomana e le nngwe e e sobokantsweng ya Pholisi ya Kharikhulamo le Tlhatlhobo ya serutwa se sengwe le se sengwe, e ne ya kwalwa go emisetsa Dipegelo tsa Dirutwa, Dikaedi tsa Lenaneothuto le Dikaedi tsa Tlhatlhobo ya Dirutwa Mephato ya R - 12 tsa bogologolo.

Pegelo ya Kharikhulamo ya Bosetšhaba ya Mephato R - 12 e e tlhabolotsweng: Pholisi ya Kharikhulamo le Tlhatlhobo (Ferikgong 2012) e emisetsa Pegelo ya Kharikhulamo ya Bosetšhaba Mephato ya R - 9 (2002) le Pegelo ya Kharikhulamo ya Bosetšhaba Mephato ya 10 - 12 (2004).

1.2 THADISO

(a) *National Curriculum Statement Grades R - 12 (Ferikgong 2012)* e emela pegelo ya pholisi ya go ithuta le go ruta mo dikolong tsa Aforika Borwa mme e na le tse di latelang:

(i) Pegelo ya Pholisi ya Kharikhulamo le Tlhatlhobo ya serutwa sengwe le sengwe sa sekolo se se amogetsweng*;*

(ii) Pegelo ya Pholisi ya, *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R - 12; le*

(iii) Pegelo ya Pholisi ya, *National Protocol for Assessment Grades R - 12 (Ferikgong 2012).*

(b) The *National Curriculum Statement Grades R - 12 (Ferikgong 2012)* e emela dipegelo tse pedi tsa kharikhulamo ya bosetšhaba tsa ga jaana, tsona ke:

(i) *Revised National Curriculum Statement Grades R - 9, Government Gazette No. 23406* of 31 May 2002*,* le

(ii) *National Curriculum Statement Grades 10 - 12 Government Gazettes, No. 25545 of 6 October 2003* and *No. 27594* of 17 May 2005.

(c) Dipegelo tsa kharikhulamo tsa bosetšhaba tse di akanngwang go ka dirisiwa mo ditemanapotlana tsa (a) le (b) di na le dipegelo tsa pholisi tse di latelang tse di tla khutlisiwang ka tatelano ke *National Curriculum Statement Grades R - 12 (Ferikgong 2012) mo pakeng ya go tloga ka* 2012-2014:

(i) Lekala la Thuto/Lenaneo la Serutwa, Dikaedi tsa Lenaneothuto, Dikaedi tsa Tlhatlhobo ya Dirutwa tsa Mephato R - 9 le Mephato 10 - 12;

(ii) Pegelo ya Pholisi ya *National Policy on assessment and qualifications for schools in the General Education and Training Band d*, e e tlhamilweng seswa mo *Government Notice No. 124* in *Government Gazette No. 29626* of 12 February 2007;

(iii) Pegelo ya Pholisi ya the *National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF)*, e e tlhamilweng seswa mo *Government Gazette No.27819* of 20 July 2005;

(iv) Pegelo ya Pholisi ya *An addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), e e mabapi le barutwana ba ba nang le ditlhokego tse di kgethegileng,* e e phasaladitsweng mo *Government Gazette, No.29466* of 11 December 2006, e akareditswe mo pegelong ya pholisi ya National *policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R - 12; le*

(v) Pegelo ya Pholisi ya *An addendum to the policy document, the National Senior Certificate: A qualification at Level 4 on the National Qualifications Framework (NQF), e e mabapi le the National Protocol for Assessment (Grades R - 12)*, e e tlhamilweng sešwa mo*Government Notice No.1267*in *Government Gazette No. 29467* of 11 December 2006.

(c) Pegelo ya Pholisi ya *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R - 12*, le dikarolo tse di mo Pholising ya Khaikhulamo le Tlhatlhobo jaaka e akanngwang mo Dikgaolong 2, 3 le 4 tsa pegelo e, tse di agang melao le boleng jwa *National Curriculum Statement Grades R - 12.* Ka jalo go ya ka karolo *6A ya South African Schools Act, 1996 (Act No. 84 of 1996,)* e aga motheo o Tona ya Thuto ya Motheo e ka tlhomamisang dipoelo tse di lekaneng tsa boleng, gammogo le thulaganyo le tsamaiso ya tlhatlhobo ya diphitlhelelo tsa barutwana e e ka dirisiwang mo dikolong tsa botlhe le mo dikolong tse di ikemetseng ka nosi.

1.3 MAITLHOMO A KAKARETSO A KHARIKHULAMO YA AFORIKA BORWA

(a) *Pegelo ya Kharikhulamo ya Bosetšhaba Mephato R - 12* e tlhagisa kitso, dikgono le meetlo e e tshwanelwang ke go ithutiwa mo dikolong tsa Aforika Borwa. Kharikhulamo e ikaelela go netefatsa gore barutwana ba bona le go diragatsa kitso le dikgono ka ditsela tse di nang le bokao mo matshelong a bona. Mo ntlheng e, kharikhulamo e godisa kakanyo ya go tsepamisa kitso ka bokao jwa tikologo, e ntse e sisimoga (tsibogela) botlhokwa jwa lefatshe ka bophara.

(b) Pegelo ya Kharikhulamo ya Bosetšhaba Mephato R - 12, e arabela maikaelelo a:

- go tlamela barutwana, go sa kgathalesege lemorago la ikonomi ya loago, lotso, bong, bokgoni jwa mmele kgotsa bokgoni jwa botlhale, le kitso, dikgono le meetlo tse di tlhokegang go ikgotsofatsa le botsayakarolo jo bo nang le bokao mo loagong jaaka baagi ba naga e e gololosegileng;
- e tlamela phitlhelelo ya thuto e e kwa godimo;
- go kaela phetogelo ya barutwana go tswa go thuto ya ditheo go ya go lefelo la tiro; le
- go tlamela bathati ka tshedimosetso e e lekaneng ya dikgono tsa morutwana.

(c) Pegelo ya Kharikhulamo ya Bosetšhaba Mephato R - 12 e ikaegile ka metheo e e latelang:

- *Phetogo ya loago;* e netefatsa gore go sa lekalekaneng mo go tsa thuto go go fetileng go a siamisiwa, le gore ditšhono tse di lekalekanang tsa thuto di neelwa baagi botlhe:
- *Go ithuta go go tlhaga gape go tseneletse*, go rotloetsa molebo o o tlhaga e le o o tseneletseng mo thutong, boemong jwa go rutiwa ga go neelwa dinnete go se tlhaga e bile go sa tsenelela;
- *Kitso e e kwa godimo le dikgono tse di kwa godimo;* bonnye jwa maemo a kitso le dikgono tse di tshwanetseng go fitlhelelwa mo mophatong o mongwe le o mongwe di totobaditswe le go beelwa seemo se se kwa godimo, seemo se se fitlhelegang mo dirutweng tsotlhe;

- *Tsweletso;* diteng le bokao jwa mophato o mongwe le o mongwe di supa tsweletso go tloga go e e bonolo go fitlha go e e gwetlhang tlhaloganyo;
- *Ditshwanelo tsa botho, boakaretsi, bosiaimisi jwa tikologo le loago;* go tsenyeletsa melawana le ditlwaelo tsa bosiamisi jwa tikologo le loago le ditshwanelo tsa botho jaaka di tlhalosiwa mo Molaotheong wa Aforika Borwa. Pegelo ya Kharikhulamo ya Bosetšhaba Mephato R - 12. (Ka kakaretso) e bosisi mo dintlheng tsa dipharologano di tshwana le lehuma, go tlhoka tekatekano, lotso, bong, puo, kgolo, bogole le dintlha tse dingwe.
- *Go totobatsa botlhokwa jwa tsamaiso ya kitso ditso;* go lemoga ditiragalo (hisetori) le boswa jo bo humileng jwa naga e jaaka dintlha tse di botlhokwa tse di nonotshang meetlo e e leng teng mo Molaotheong; le
- *Go ikanyega, boleng le nonofo;* go tlamela thuto e e ka bapisiwang le ya dinaga tse dingwe ka boleng, go anama le boteng

(d) Pegelo ya Kharikhulamo ya Bosetšhaba Mephato R - 12 e ikaelela go tlhagisa barutwana ba ba kgonang go:

- lemoga le go rarabolola mathata gape ba tsaya ditshwetso ba akanya ka tsenelelo e bile ba na le boitlhamedi.
- dira ka katlego ba le bosi, kana ba na le ba bangwe e le karolo ya setlhopha;
- ithulaganya, go itsamaisa le go tsamaisa ditiro tsa bona ka boikarabelo le ka nonofo.
- kgobokanya, sekaseka, rulaganya le go tlhatlhoba tshedimosetso ka tsenelelo;
- tlhaeletsana ka nonofo ba dirisa dikgono tsa pono, matshwao kgotsa dikgono tsa puo mo mekgweng e e farologaneng;
- dirisa saense le thekenoloji ka nonofo le ka tsenelelo ba supa boikarabelo mo tikologong le mo boitekanelong jwa ba bangwe; le
- bontsha go tlhaloganya lefatshe jaaka thulaganyo ya ditsamaiso tse di amanang ka go lemoga gore dikaelo tsa tharabololo ya mathata ga di tlhagelele di le tsosi.

(e) Boakaretsi bo tshwanetse go nna karolokônôkônô ya thulaganyo, ipaakanyo le go ruta mo sekolong se sengwe le se sengwe. Se, se ka diragala fa fela barutabana botlhe ba na le tlhaloganyo e e edileng ya go lemoga le go arabela dikgoreletsi tsa go ithuta le go rulaganyetsa dipharologano.

Ntlhakgolo mo go tsamaiseng boakaretsi ke go netefatsa gore dikgoreletsi di a lemogiwa le go arabelwa ke ditlhopha tsotlhe tsa tshegetso mo loagong lwa sekolo, go akaretsa barutabana, ditlhopha tsa tshegetso tsa dikgaolothuto, ditlhopha tsa tshegetso tse di mo ditheong, batsadi le dikolo tse di kgethegileng jaaka ditikatikwe tse di tswelang morafe mosola ka kakaretso. Go arabela dikgoreletsi mo phaposiborutelong, barutabana ba tshwanetse go dirisa ditogamaano tse di farologaneng tsa dipharologano tsa kharikhulamo jaaka tse di akareditsweng mo Dikaeding tsa Go Ruta le Go Ithuta ga Boakaretsi tsa Lefapha la Thuto ya Motheo (2010). (*Department of Basic Education's Guidelines for inclusive teaching and learning (2010)*).

1.4 KABO YA NAKO

1.4.1 Kgato ya Motheo

(a) Nako ya go ruta ya dirutwa tsa Kgato ya Motheo tse di kailweng mo lenaneong le le fa tlase:

SERUTWA	MOPHATO R (DIURA)	MEPHATO 1-2 (DIURA)	MEPHATO 3 (DIURA)
Puo ya Gae	10	7/8	7/8
Puo Tlaleletso ya Ntlha		2/3	3/4
Dipalo	7	7	7
Dikgono tsa Botshelo Kitso ya Tshimologo Boitlhamedi mo go tsa Botsweretshi Thuto ya Ikatiso ya Mmele Thuto ya boitekanelo jwa motho le loago	6 (1) (2) (2) (1)	6 (1) (2) (2) (1)	7 (2) (2) (2) (1)
GOTLHE	**23**	**23**	**25**

(b) Nako ya go ruta ya Mephato R, 1 le 2 ke diura di le 23 mme ya Mophato 3 ke diura di le 25.

(c) Diura di le 10 mo dipuong di abetswe Mephato R-2 mme diura di le 11 ke tsa Mophato 2. Bogolo jwa diura di le 8 le bonnye jwa diura di le 7 di abetswe Puo ya Gae, bonnye jwa diura di le 2 le bogolo jwa diura di le 3 di abetswe Puotlaleletso mo mephatong R-2. Mo mophatong wa 3 bogolo jwa diura di le 8 le bonnye jwa diura di le 7 di abetswe Puo ya Gae fa bonnye jwa diura di le 3 le bogolo jwa diura di le 4 di abetswe Puotlaleletso ya Ntlha.

(d) Mo serutweng sa Dikgono tsa Botshelo, Kitso ya Tshimologo e abetswe ura e le 1 mo mephatong ya R-2 le diura di le 2 jaaka go kailwe ka diura tse di mo masakaneng mo mophatong wa 3.

1.4.2 Kgato ya Magareng

(a) Nako ya go ruta ya dirutwa tsa Kgato ya Magareng tse di kailweng mo lenaneong le le fa tlase:

SERUTWA	DIURA
Puo ya Gae	6
Puo Tlaleletso ya Ntlha	5
Dipalo	6
Disaense tsa Tlhago le Thekenoloji	3,5
Disaense tsa Loago	3
Dikgono tsa Botshelo Boitlhamedi mo go tsa Botsweretshi Thuto ya Ikatiso ya Mmele Thuto ya boitekanelo jwa motho le loago	4 (1,5) (1) (1,5)
GOTLHE	**27,5**

1.4.3 Kgato e Kgolwane

Nako ya go ruta ya dirutwa tsa Kgato ya Kgolwane tse di kailweng mo lenaneong le le fa tlase:

SERUTWA	DIURA
Puo ya Gae	5
Puo Tlaleletso ya Ntlha	4
Dipalo	4,5
Disaense tsa Tlhago	3
Disaense tsa Loago	3
Thekenoloji	2
Disaense tsa Botsamaisi le Ikonomi	2
Tebanyo le Botshelo	2
Botsweretshi le Setso	2
GOTLHE	**27,5**

1.4.4 Mephato 10-12

(a) Nako ya go ruta ya dirutwa tsa Mephato 10 - 12 tse di kailweng mo lenaneong le le fa tlase:

SERUTWA	KABO YA NAKO MO BEKENG (DIURA)
Puo ya Gae	4.5
Puo Tlaleletso ya Ntlha	4.5
Dipalo	4.5
Tebanyo le Botshelo	2
Bonye jwa dirutwa dingwe le dingwe fela tse tharo di tlhophiwa go tswa mo Setlhopheng sa B Mametlelelo B, Mananeo B1-B8 a pegelo ya pholisi ya *National policy pertaining to the programme and promotion requirements of the National Curriculum Statement Grades R – 12,* e le mabapi le go ya ka mabaka a a botswang pele go dumelanwa ka ona mo ditemaneng tsa 28 tsa pegelo ya pholisi e e bolelwang.	12 (3x4h)

Nako e e abilweng ya beke e ka dirisediwa bonnye dirutwa tsa NCS tse di tlhokegang jaaka go kailwe fa godimo, e bile e se ke ya dirisediwa dirutwa dipe tsa tlaleletso tse di okeditsweng mo lenaneong la dirutwa. Fa morutwana a ka eletsa go oketsa dirutwa, nako e e okeditsweng e abelwe go rutiwa ga dirutwa tse.

KGAOLO 2: DITLHALOSO, MAIKAELELO, DIKGONO LE DITENG

2.1 MATSENO

Kgaolo 2 ya Thuto ya Dipalo tsa Kgato Motheo mo Pegelong ya Polisi ya Bosetšhaba ya Kharikhulamo le Tlhatlhobo e neela barutabana ka tlhaloso ya dipalo, maikaelelo a a tsepameng, dikgono tse di tsepameng, tsepamiso mo diteng tsa serutwa, bokete jwa diteng tsa serutwa, didiriswa tsa tsa dithutiso tsa dipalo tse di atlegenesitsweng thuto ya kgato ya motheo, dikaelothuto tse di tshitshintsweng go thusa barutwana ba nang le mathata a go ithuta dipalo, dipalo-tlhogo le go godisa thuto ya bokgoni jwa go ithuta dipalo mo Mophatong wa R.

2.2 DIPALO KE ENG?

Dipalo ke puo e e dirisang matšhwao le mokwalopalo o o tlhalosang botsalano jwa ditlhakapalo, thuto tekatekanyo le dikerafo. Ke tirwana ya botho e e akaretsang go lebelela, go bapisa le go batlisisa dipaterone le boleng botsalano jwa dilo tse di bonagalang le tsa loago le fa gare ga didiriswa tsa dipalo ka botsona. E thusa go aga mekgwa ya go akanya e e latelanang le go nagana ka tshekatsheko, nepagalo le tharabololo ya dipalo tse di abelanang le go tsaya ditshwetso.

2.3 MAIKAELELO A A TOTOBETSENG

Maikaelo a go rutiwa le go ithuta dipalo a tsepamedisitswe mo go ageng tse di latelang mo morutwaneng:

- Tshekatsheko temoso ya botsalano jwa dipalo e dirisitsweng jang mo loagong, tikologong, tsa setso le mo botsalanong jwa tsa ikonomi.
- Go itshepa le bokgoni go lebagana le maemo a dipalo kwa ntle ga go kgorelediwa ke letshogo la dipalo
- Moya wa gonna le lerato la dipalo
- Kanaanelo le bontle jwa dipalo
- Temogo ya gore dipalo ke karolo ya botsweretshi ya botho
- Kgopolo tlhaloganyo e e tseneletseng e e tla dirang gore dipalo di nne le bokao
- Kamogelo ya kitso e e totobetseng le dikgono tse di tlhokagalang go
  - dirisa dipalo ka tsela e e bonagalang, mo loagong le mo mathateng a dipalo
  - ithuta diteng tsa serutwa se se maleba
  - Go ithutela pele mo dipalong

2.4 DIKGONO TSE DI TOTOBETSENG

Go godisa dikgono tsa botlhokwa tsa dipalo morutwana o tshwanetse go

- godisa tiriso ya puo ya dipalo
- godisa tlotlofoko ya dipalo, kgopolopalo le go tlhakanya le dikgono tsa go dira dipalo
- ithuta go reetsa, go buisana, go nagana ka tatelano le go dirisa kitso ya dipalo e e ithutilweng
- ithuta go batlisisa, go lokolola, go Bapisa le go ranola tshedimosetso
- ithuta go botsa le go rarabolola dipalo

- Aga boitemogelo mo karolong e e botlhokwa e dipalo di e tshamekang mo maemong bonnete a matshelo a rona, go akaretsa kgolo ya morutwana ka boene

2.5 TSEPAMO MO DITENG TSA SERUTWA

Dipalo mo kgatong ya motheo o di akaretsa diteng tsa dirutwa di le tlhano. Diteng tsa serutwa sengwe le sengwe di abelana ka kamogelo ya dikgono tse di totobetseng. Lenaneo le le fa tlase le supetsa tsepamo mo diteng tsa serutwa ga mmogo le tsepamo e e totobetseng mo diteng tsa dirutwa tsa thuto ya kgato motheo

Lenaneo 2.1 Tsepamo mo diteng tsa dipalo tsa thuto kgato motheo

KITSO YA DITENG TSA DIPALO		
Diteng tsa serutwa	**Tsepamo mo diteng ka kakaretso**	**Tsepamo e e totobetseng mo diteng tsa kgato ya thuto motheo**
Dipalo, diopereishene le botsalano	Kgodiso mo bokaong jwa dipalo e akaretsa • bokao jwa dipalo tse di farologaneng • Botsalano mo dipalong tse di farologaneng • Kamano bogolo ya dipalo tse di farologaneng • ditsela tse di farologaneng tsa tshwantshiso ya dipalo • Kgono ya go dira ka dipalo	Palo tekanyo e e godisiwang go ya kwa bokhutlong jwa mophato wa 3 e akaretsa palotlalo ya bonnye jo bo ka nang ka 1000 le dipalophatlho tse di tshwanang. Mo kgatonge,palokgopolo ya barutwana e godisiwa ka go dira ka go bala didiriswa tse di kgobokantsweng, kgaogano le go kopanya bogotlhe ba tsona, o bala o tlodisa ka tsela tse di farologaneng, rarabolola dipalo tsa mafoko le go aga le go tlhatlhamolola dipalo • Go bala go godisa bokgoni jwa barutwana jwa go itse kgoplopalo, dipalo tsa tlhogo, phopholetso, go tlhakanya le temogo ya dipaterone • Kgodiso ya kgopolopalo e thusa barutwana go ithuta ka ga dipharologantsho tsa dipalo le kgodiso ya ditogamaano tsa go dira tlhakanyo bonolo • Go rarabolola dipalo go ya ka maemo go naya barutwana bokgoni jwa go buisana ka dikakanyo tsa bona ka molomo le go di kwala ba dirisa ditshwantsho le matšhwao • Barutwana ba aga kutlwisiso mo diopereisheneng tsa go tlhakanya, go tlosa, go atisa le go arola • Barutwana ba godisa kgopolo ya dipalophatlho ka go ranolola dipalo tse di akaretsang go aroganya didiriswa le go dirisa ditshwantsho. Dipalo di tshwanetse go akaretsa di tharabololo tse di neelang ka disala tsa palotlalo kgotsa dipaophatlho. Go aroganya go seka ga akaretsa fela go bona dikarolo mo selong se se feletseng mme gape le go bona dikarolo mo didirisweng tse di kgobokantsweng. Mo kgatong e, ga go a solofelwa gore ba itse go bala le go kwala matshwao a dipalophatlo.

KITSO YA DITENG TSA DIPALO		
Diteng tsa serutwa	**Tsepamo mo diteng ka kakaretso**	**Tsepamo e e totobetseng mo diteng tsa kgato ya thuto motheo**
Dipaterone, tiriso le Alejebera	Alejebera ke puo ya go batlisisa le go tlhaeletsa dipalo ka bontsi, e kgona le go atlosediwa mo thutong ya ditiriso le dikamano tse dingwe tse di fa gare ga dilo tse di fetofetogang. Mo karolong bogare jwa diteng tsa serutwa, morutwana a ka fitlhelela dikgono tse mo tirisong ya Alejebera. E tsepamedisitswe gape mo: • tlhalosong ya dipaterone le kamano ka tiriso ya matshwao, kerafo le lenaneo, le • Tshupetso le go lokolola dilo tsa tlwaelo le phetogo mo dipateroneng, le kamano e e kgotlosang morutwana go dira ponelopele le go rarabolola dipalo	Mo kgatong e, barutwana ba dira • popego palo ga mmogo (sekao go bala o tlodisa) • Dipaterone tsa thutatekano (sekao ditshwantsho) Barutwana ba tshwanetse go dirisa didiriswa tse di bonalagalng, ditshwantsho le dipopego tsa matshwao go kopolola, go atolosa, tlhaosa le go bopa dipaterone, Go kopolola dipaterone go thusa barutwana go bona tatelano gore paterone e dirilwe jang. Go atolosa paterone go thusa morutwana go lekola gore a ba tlhalogantse tatelano ya paterone Go tlhalosa paterone go thusa morutwana go godisa dikgono tsa bona tsa puo. Tsepamiso mo tatelanong ya dipaterone e ala motheo mokgodisong ya dikgono tsa go nagana tsa Alejebera. Popegopalo e tshegetsa kgodiso ya kgopolopalo le bokao jo bo agilweng mo dipalong, diopereishene le botsalano Dipaterone tsa thutatekano di akaretsa tatelano ya mela, dipopego le didiriswa mme gape le dipaterone tsa mo lefatsheng. Mo dipateroneng tsa thutatekano barutwana ba dirisa kitso ya bone ya boalo le popego.
Boalo le popego	Thuto ka ga boalo le popego e tsweletsa go tlhaloganya le go ananeela dipaterone, nepagalo ya tsona, phitlhelelo le bontle jwa dipopego tsa tlholego le tsa setso. E tsepamedisitswe mo • pharologantsho, botsalano • Kitsiso, maemo le • Diphetogo mo tekatekanyong ya dipopego pedi le didiriswa tekatekanyo tharo	Mo kgatong e, barutwana ba tsepamedisiwa mo didirisweng tsa tekatekanyong tharo (3-D), dipopego tekatekanyo tlhakore pedi (2-D), maemo le dikaelo. • Barutwana ba utolola dipharologantsho tsa didiriswa tsa tekatekanyo tharo (3-D) le dipopego tekatekanyo tlhakore pedi (2-D) ka go di tlhpa, ba di rulaganya, tlhalosa le go naya maina a tsone • Barutwana ba Bapisa dipopego lego aga ka didiriswa • Barutwana ba lemoga le go tlhalosa dipopego le didiriswa tse di tshwanang le dipopego tsa dipalo mo tikologong. • Barutwana ba tlhlosa maemo a didiriswa, a bone le a ba bangwe ba dirisa tlotlofoko e e maleba • Barutwana ba la tela le neela ka dikaelo
Go lekanya	Go lekanya go tsepamedisitswe mo tlhpong le tirisong ya diyuniti tse di maleba le difomula go lekanyetsa pharologantsho ya ditirafalo, dipopego, didiriswa mo tikologong. E nyalana ka tlhamalalo le lefatshe la morutwana la bonetetshi, bothekeniki le ekonomi, di kgonisa morutwana go • dira phopholetso e e nang le bokao • Tsitsiboga mo go neeleng mabaka a go lekanya le dipholo	• Mo kgatong e, kgopolo ya barutwana ya go lekanya e godisiwa ka go dira ka ponagalo ka didiriswa tse di farologaneng le dipoego, go ithuta dipharologantsho tsa boleele, mothamo, bokete, boalo le nako • Barutwana ba lekanya dipharologantsho tsa dipopego le didiriswa ba dirisa ditsela tse di sa tlhomamang tse di malaba jaaka diatla, dikgato le ditshelo jalo jalo • Barutwana ba Bapisa dilekanyo tse di farologaneng ka go dirisa mafoko a tshwantshiso jaaka moleele go/ mokhutswana go, e boima thata/ e bofefo thata jalo jalo • Barutwana ba itsesiwe go diyuniti tse di tlhomameng jaaka digerama, dikilogerama, dimilimetara, diletara, disentimetara, dimetara. Ditirwana tse di amanang le nako di tshwanetse go rulaganngwa go lemosa barutwana go tlhaloganya tsamao ya nako pele ga a bala letsatsi ka nako.

KITSO YA DITENG TSA DIPALO		
Diteng tsa serutwa	**Tsepamo mo diteng ka kakaretso**	**Tsepamo e e totobetseng mo diteng tsa kgato ya thuto motheo**
Go dira ka dipalo tsa tshedimosetso	Ka go ithuta dipalo tse di dirang ka tshedimosetso, morutwana o godisa dikgono tsa go • Kgobokanya, • Rulaganya, • le go supetsa, • Lokolola le go ranolola tshedimosetso e e neetsweng	Go rutiwa le go ithuta dipalo tsa tshedimosetso mo kgatong ya motheo go tsepamedisitswe mo go tlhopheng didiriswa le tshedimosetso ka ditsela tse di farologaneng, go ikaegile ka ditebego tse di farologaneng tsa didiriswa kgotsa tshedimosetso • Go solofelwa gore barutwana ba ranole le go aga dikerafa tse di dirisediwang ditshwantsho le kerafonoko e e supetsang nyalano ka bongwe-ka-bongwe mo tshedimosetsong e e neetsweng.

2.6 BOLENG JWA DITENG TSA SERUTWA

Boleng jwa diteng tsa serutwa sa dipalo e neela ka tshimologo ya mesola e mebedi: ga ntlha boleng bo neela ka kaelo ya nako e e tlhokagalang go ruta ka botlalo diteng tse di mo serutweng se sengwe le sengwe;sa bobedi boleng bo neela ka kaelo mo go kgaoganyeng diteng tsa serutwa mo tlhatlhobong.Boleng jwa diteng tsa serutwa ga bo tshwane mo mophatong mongwe le mongwe wa kgato ya motheo.

Lenaneo 2.2 Boleng jwa diteng tsa serutwa mo thutong ya kgato motheo

BOLENG JWA DITENG TSA SERUTWA			
Diteng tsa serutwa	**Mophato 1**	**Mophato 2**	**Mophato 3**
Dipalo, diopereishene le dikgolagano*	65%	60%	58%
Dipaterone, tioriso le Alejebera	10%	10%	10%
Popego le boalo (Jeometeri)	11%	13%	13%
Go lekanya	9%	12%	14%
Go dira ka dipalo tsa tshedimosetso	5%	5%	5%
	100%	**100%**	**100%**
*Go botlhokwa gore tsepamo e nne mo dipalong, diopereishene le botsalano mo mophatong wa R. Letlelela barutwana go fetsa mo kgatong ya motheo ba tshwanetse gore ba bo ba tlhomame go tlhaloganya bokao jwa dipalo le go Motlotlo ka diopereishene. Maikaelelo ka gore barutwana ban ne le bokgoni le go itshepa fa ba dira dipalo le go tlhakanya. Ka lebaka le, nako e e abetsweng dipalo, diopereishene le botsalano e okeditswe. Tiro ka bontsi e tshwanetse go tsepamedisiwa mo dopateroneng tsa dipalo go tiisa bokgoni jwa barutwana go dirisa dipalo			

2.7 DIPALO MO THUTONG YA KGATO MOTHEO

Thuto ya kgato motheo e golaganya botshelo jwa ngwana jwa tshimologo ya sekolo le botshelo kwa ntle ga sekolo, mo letlhakoreng le lengwe dipalo kgopolo tse di rutiwang mo mephatong e e latelang di a golaganngwa. Mo mephatong ya ntlha bana ba tshwanetse go tlhagisediwa maitemogelo a dipalo a a ba nayang ditshono tse dintsi tsa go dira, go Motlotlo le go rekota dikakanyo tsa bone tsa dipalo.

Kgoboko ya nako e e dirisediwang dipalo e na le tsenelelo mo kgodisong ya barutwana ya dikgopolo tsa dipalo le dikgono tsa bone. Ditirwana tse barutwana ba tshwanetseng go di dira gareng ga tse dingwe, ga e se go ba dira e ka re ba a dira mme fela ke gore ditirwana tse, di tsepamedisiwe mo dipalong jaaka go kailwe mo kharikhulamong.

2.7.1 Ditaelokaedi tse di tshitshintsweng tsa taolo ya phaposi

Nako yotlhe e e beetsweng go ruta dipalo mo letsatsing le le nosi, e tshwanetse go lebelelwa jaaka pakathuto e le nngwe. Ka nako ya pakathuto ya dipalo, tse di latelang di tshwanetse go diragala:

- **Tirwana ya phaposi yotlhe**
  - Dipalo tsa tlhogo
  - Tiiso ya dikgopolo
  - Taolo ya phaposi (kabelano ya ditirwana tsa barutwana ka nosi)
- **Go ruta ditlhopha tse dinnye**
  - Go bala
  - Kgodiso ya kgopolopalo (ka ditirwana tsa motlotlo le tiragatso)
  - Go rarabolola dipalo (ka ditirwana tsa motlotlo le tiragatso)
  - Rekota ka go kwala
  - Godisa ditogamaano tsa go tlhakanya (ka ditirwana tsa motlotlo le tiragatso)
  - Dipaterone
  - Boalo le popego
  - Go lekanya
  - Go dira ka dipalo tsa tshedimosetso
- **Tiro e e itirelwang ke barutwana**

Barutwana ba ikatisa le go tiisa kgodiso ya dikgopolo mo thutong ya phaposi le mo ditlhopheng tse dinnye.

Ditirwana tsa phaposi yotlhe: Tsepamo e tla dirwa bogolo segolo mo dipalong tsa tlhogo, tiiso ya dikgopolo le kabelano ya ditirwana tse barutwana ba di dirang ba le nosi mo metsotsong e le 20 ka letsatsi mo tshimologong ya thuto ya dipalo. Ka nako e,gape morutabana o dira le barutwana botlhe mo phaposing go tlhomamisa le go rekota leina la letsatsi, letlha, barutwana ba leng teng le be ba lofileng, le maemo a bosa. Dipalo tsa tlhogo di akaretsa tshimologo ya dipalo tsa tlhogo jaaka" palo morago ga/pele ga 8 ke, 2 gantsi/gannye go feta 8 ke,4+2;5+2;6+2 jalo jalo. Ka nako e, moratabana o kgona go dira dikgopolo tse di boimanyana. Se se leng botlhokwa gape ke gore morutabana a neele barutwana tirwana e e ba akaretsang botlhe ga mmogo le ditirwana tse di dirwang ke barutwana ka bongwe ka bongwe, a ntse a tsweletse ka tiro e e tsepamedisitsweng setlhopha se se nnye kwa sekhutlwaneng sa go ruta.

Setlhopha se sennye se se tsepamedisitsweng dithutiso: di nna mosola fa morutabana a ruta setlhopha se sennye sa barutwana (8-12), ba ba nang le bokgoni jo bo tshwanang mo dipalong/metsheng kgotsa fa lenaneo la dipalo, fa barutwana ba bangwe ba dira ditirwana tse ba dirang ba ikemetse. Morutabana o dira tiro ka go Motlotlo le tiro e e diragatswang(practical) le barutwana, go dira ditirwana tse di tshwanang le go bala, go fopholetsa, kgodiso ya kgopolopalo le ditirwana tsa tharabololo ya dipalo ga mmogo le ditirwana tse di malebana le dipaterone, boalo le popego, go lekanya le dipalo tsa go dira ka tshedimosetso go tshwanetse go rulaganyetswe.

Gore o kgone go tiisa go ithuta, tiro e e kwalwang (buka ya go dira, dikai papetlana ya tirwana, dikarata tsekedimo tsa tiro) o tshwanetse go tsaya karolo mo ditirong tsa ditlhopha mo go kgonagalang teng. Barutwana ba tshwanetse go nna le didiriswa tsa go kwala (dibuka tsa dithutiso tsa phaposi jalo jalo) ditirwana tsa go ranola dipalo. Nako ya ditiro tsa ditlhopha di tshwanetse go neela barutwana tšhono ya go buisana le morutabana le barutwana ba tshwanetse go rotloediwa go tlotla, go diragatssa le go rekota dikakanyo tsa bone tsa dipalo.

Barutabana ba tshwanetse go tlhokomela gore ba seka ba nyatsa barutwana ba bonya, ba tshwanetse go newa tšhono ya go dira tiro ya nako telele. Go bonolo go nyalanya maemo o tiro e e boima go barutwana ba setlhopha sa bokgoni jo bo tshwanang. Le fa go ntse jalo, ditlhopha tsa bokgoni jo bo tlhakaneng di ka dira

sentle mo tirong ya go aga, fo lekanya le dira dipaterone kgotsa go dira ditirwana tsa go tlhopa kgotsa go tshameka metshameko

Ditirwana tse barutwana ba di itirelang: fa morutabana a ntse a tsweletse le setlhopha se se tsepamedisitsweng mo dithutong tsa kwa sekhutlwaneng, barutwana ba bangwe ba tshwanetse gore ba dire ditiro tse di farologaneng tsa dipalo tse tsepamedisitsweng mo go tiiseng dikgopolo le dikgono tse di setseng di rutilwe ka nako ya dithuto tse di tsepameditsweng ditlhopha tse dinnye. Ditirwana tse barutwana ba di itirelang di tshwanetse go farologanngwa go neelana ka bokgoni jwa maemo a a farologaneng. Ditirwana tse, di ka nna tsa akaretsa

- ditirwana tse di kwalelwang mo bukeng ya tiro
- papetlana ya tirwana/dikarata tsekedimo tsa tiro ya go bala, tiriso ya dipalo, dipalo tse di botlhofo (dipalo tsa mafoko)
- metshameko ya dipalo jaaka ludo, ditomino, diphasele tsa jiki saw
- Ditiro tse di akaretsang go aga, go tlhola, go dira dipaterone kgotsa go lekanya

Pakathuto ya dipalo e tshwanetse go neelana ka tshegetso ya barutwana ba itemogelang dikgoreletsi /mathata.

Ditirwana tse barutwana ba itirelang tsone ga mmogo le tsa dithuto tse di tsepamedisitsweng ditlhopha tse dinnye kwa sekhutlwaneng, di tshwanetse go lebelelwa (tse di diragatswang, le tsa motlotlo), di tshwaiwe le go tlhokemelwa (tse di kwadilweng) ke morutabana jaaka karolo ya tlhatlhobo e e sa tlhomamang le e e tlhomameng.

Go latedisiwa ga dikarabo tsa barutwana (tsa puisano, motlotlo, tse di dirisegang, tse di kwalwang) mo maemomg a ba ithutang le go rutiwa mo go ona, di bontsha morutabana go tlhatlhoba ka tsela e e tswelang, go lekola tswelopele ya barutwana le go rulaganya tshegetso go ya ka dikgoreletsi tse ba itemogelang mo go ithuteng

2.7.2 Barutwana ba ba itemogelang dikgoreletsi mo go ithuteng

Go botlhokwa go akaretsa barutwana ba itemogelang mathata mo thutong e e tletseng ditiro tsa phaposi.Dikao tse di dirisang dithusa-thuto tse di bonagalang di tshwanetse go dirisiwa sebaka se se leele gonne fa di tla tlogelwa ka bonko di ka baka tsielego le poelomorago mo thutong ya barutwana. Barutwana batshwanetse go neelwa nako e telele go:

- Feleletsa ditirwana tlhatlhobo le ditiro tsa phaposi
- Iponela bokgoni jwa go akanya (ditogamaano tsa bona).

Ditirwana tse di feditsweng, palo ya tsona e lekanyetswe go barutwana kwa ntle ga go sa eletlhoko se barutwana ba se itseng le bokgoni jwa bona bo sa lebelelwa .

2.7.3 Dipalo tsa tlhogo

Dipalo tsa tlhogo di tsaya karolo e kgolo mo kharikhulamong ya thuto ya motheo.Dintlha tsa Kgokagano ya dipalo le lenaane la katiso la dipalo tsa mophato mongwe le mongwe, tse barutwana ba solofetsweng go di itse kgotsa go di gakologelwa ka bonako di neetswe mo lenaaneng.Mo tlaleletsong,dipalo tsa tlhogo di ka dirisiwa ka phethelelo go thusa thata kgodisa kitso ya dipalo tse di kgolwane ka go dirisa mokgwa wa go bala o tlola le go bala o ya kwa godimo le kwa tlase mo palo sepagamo(number ladder)Sekao 796.Oketsa ka 7.Ke 803.Fokotsa ka 5 Ee ke 798. Oketsa ka 10... oketsa gape ka 2.....oketsa ka 90.....fokotsa ka 5 jalo jalo.Se, se ka thusa barutwana go dira molapalo wa dipalo tsa tlhogo.

Dipalo tsa tlhogo ka jalo di tlhagelela thata mmogo mo go baleng le mo dikarolong tsa kgodiso ya kgopolo palo tse di amanang le ditlhogo tsa dipalo le dipaterone.Se, se kgona go diragala gape fa o ruta ditirwana tsa go lekanya le dipalo tse di dirang ka tshedimosetso, fa go dirwa dipalo tsa tlhogo, morutabana ga a tshwanela go pateletsa barutwana go dira dipalo tsa tlhogo tsa go tlhakanya tse ba ka se di kgoneng. Didiriswa tsa go kwalela le dipadisa di tshwanetse go nna teng ka dinako tsotlhe mo barutwaneng ba ba di tlhokang.

2.8 MOPHATO WA R

Thuto ya go ithuta dipalo e tshwanetse go ikaega ka melawana ya tsenyaletso le motshameko yo o ikaegileng ka go ithuta.nna e e gokaganeng le go ithuta o tshameka.Morutabana o tshwanetse go nna matlhagatlhaga ka go nna mogokaganyi boemong jwa go nna motsamaisi wa thuto mo phaposing. Mogokaganyi o neela ka ditšhono tse di itiragalelang fela ka nako ya ditirwana tse di ikaegileng ka ngwana jaaka metshameko o o lokolosegileng mo sekhutlwaneng sa motshameko wa megopolo kgotsa lefelo la go aga diboloko,sekhutlwana sa go tshameka ka mmu le metsi ga mmogo le ditirwana tse di eteletsweng pele ke morutwana, tse di tsepamedisitsweng mo dikgopolong tsa dipalo jaaka go ithuta go bala,go nna le kgolo le kitso ya dipalo, boalo le dipopego,dipaterone,nako le temogo e e totobetseng ya dipalo.Mmala ka nosi ga se karolo ya dipalo mme e ka thusa go godisa ditirwana tsa kgopolo palo jaaka go tlhaola,kgobokanyo ka ditlhopha le pharologantsho

Dikarolo tsotlhe tsa mophato wa R, o akaretsa maemo a tikologo ya phaposi, tiragatso ya go ruta le ithuta, di tshwanetse go godisa kgolo ya ngwana ka bogotlhe.Kgolo e,e e tshamekang karolo e e botlhokwa mo dipalong tsa pele e akaretsa kgolo godisiwa ka go dirisa dikgang khutswe, dipina, diraeme,metshame ya menwana le metshameko ya metsi, ditshamekisi tsa go ithuta tse di akaretsang metshameko e e tshamekelwang mo lepolankeng, go aga le metshameko ya go utpolola (boima, nako, mothamo, go lekanya jalo jalo), metshameko ya megopolo, metshameko ya kwa ntle, le ya mo patlelong.Mefuta e mentsi ya metshameko e ka akaretsa dintlha ka kitso e ntsi ya dipalo sekao go meta fa o apaya,go bala fa reka dilwana kwa lebenkeleng.

Ka mafoko a mangwe, thutego mo dipalong tsa tshimologo le dikgopolo tse nyalanang le dipalo, di tshwanetse gore jaaka di siametse thuto, di ikamanye go melawana ya go ithuta e e latelang e ngwana e golang mo kgatong tse tharo tsa go ithuta, maina a dikgato tse ke a:jalo go anya kitso ya dipalo le megopolo yotlhe e e tsenyeletsang dipalo di tshwanetse tsa ikaege ka theo (motheo) ya thuto e e reng fa bana ba ithuta ba tsamae ka dikgato tse tharo tse di latelang tse:

- Kgato ya maitemogelo ka tsamaiso ya mmele (maitemogelo ka dikgopolo tsa mmele le dirwe tsa kutlo
- Kgato ya go dira ka dikgonngwa/dipopego (Tekatekanyo ya popego tharo,dirisa diboloko tse di farologaneng, matlhare le didiriswa tse dingwe mo tikologong)le
- Tshwantshiso boemedi jwa pene le pampiri (tshwantshiso ya dikgonngwa tse di sa felelang o dirisa ditshwantsho, nyalano ya dikarata tsekedimo)

Mo ngwageng wa mophato wa R ,lenaanethuto le bidiwa lenaneo la letsatsi le letsatsi **(Lebelela Tlhakapalo 1)** mme e dirilwe ka dikarolo tse tharo:

- Ditiro tse di kaelwang ke morutabana
- Ditiro tsa tlwaelo le
- Ditiro tsa boitshimololedi tsa bana le metshameko e e golololesegileng

Tlhakapalo 1: Lenaneo la letsatsi le letsatsi la mophato R

(Gotloga ± 7:30 – 13:00)

KGOROGO LE NAKO YA GO TSHAMEKA

Metsotso 36

Ditumediso Matsalo
Bukakwadiso Dikgang
Karata tsekedimo ya maemo a bosa

Ditiro tse di kaelwang ke morutabana
Dipalo, Puogae, Dikgono tsa botshelo

Metsotso 50

- Ditiro tsa bokati (letsatsi le letsatsi: Tirokgolo 1 + 2/3 Ditiro tsa tlaleletso
- Metshameko ya boikgethelo
- Phepafatso mo phaposing

Metsotso 30

DITIRO TSE DI KAELWANG KE MORUTABANA
Dipalo; Puo ya gae; Dikgono tsa botshelo

Metsotso 10

NAKO YA NTLWANA BOITHOMELO
Dipalo, Puogae, Dikgono tsa botshelo

Metsotso 20

NAKO YA DILAPOLOSI
Dipalo, Puogae, Dikgono tsa botshelo

Metsotso 60

Metshameko ya boikgethelo le Phepafatso

Metsotso 10

NAKO YA NTLWANA BOITHOMELO
Dipalo, Puogae, Dikgono tsa botshelo

Metsotso 30

DITIRO TSE DI KAELWANG KE MORUTABANA
Dipalo, Puogae, Dikgono tsa botshelo

Metsotso 30

SETORI/DIKGANGE: tsatsi le letsatsi

Boikhutso/Nako ya tidimalo le kgaogano

Dipalo Puo ya gae
Dikgono tsa botshelo

- Metshameko ya boitlhomo
- Motshameko-tiragatso
- Motshameko-kago
- Ditshamikisi tsa thuto
- Ditshamekisi
- Metshameko ya tlhaloganya
- Malepa
- Sekhutlo sa go buisa
- Nako ya tidimalo
- Sekhutlo sa tidimalo

- Metshameko ya metsi
- Motshameko wa mmu
- Tiragatso
- Dikgwele
- Sekoporomae
- Ditshamikisi tsa maotwana
- Ditshamikisi tsa thuto
- Ikatiso ya jankele
- Ditaere
- Thuto ya tatiso ya mmele
- Metshameko

DIPALO

- Ditiro tse di tswang mo pegelong ya polisi ya kharikhulamo ya tlhatlhobo . (Dipalo)
- Ditiro tsa mmino le dipina
- Ditro tsa tlhaloganyo
- Raeme tsa go bala
- Puisano ka setlhogo
- Ditekelelo tsa bonetetshi
- Metshameko ya boikgethelo
- Ditiro tsa ka gale

PUOGAE

- Ditiro tse di tswang mo CAPS (Puogae)
- Dikgang
- Tiragatso
- Dibuka/Ditshwantsho
- Go bala ditshwantsho
- Puisano ka setshwantsho
- Metshameko ya tlhaloganyo
- Positara ya batsadi
- Lokwalo la batsadi
- Dikgang
- Maboko/Diraeme
- Mmino/Dipina/Diraeme
- Theipi
- Puisano ka setlhogo
- Ditiro tsa metsamao wa batho
- Ditiro tsa gale
- Metshameko ya boikgethelo

DIKGONO TSA BOTSHELO

- Ditiro tse di tswang mo CAPS (Dikgono tsa botshelo)
- Ditiro tsa metsamao ya batho
- Dipina le mmino
- Maboko le diraeme
- Puisano ka setlhogo
- Matsalo
- Ditiro tsa gale
- Metshameko ya boikgethelo

Kgatelelo mo tsamaong ya ngwaga,e tshwanetse go nna mo tatelong ya lenaneo la letsatsi le letsatsi go tsweletsa go ithuta tshimologo ya kitso ya dipalo ka mokgwa wa go ithuta o tshameka.Sekao ditiro tse di kaelwang ke morutabana thutotong ya dipalo, di neelana ka ditšhono ka nako ya go dula le barutwana mo sedikong. Bontsi jwa ditiro ka nako ya go dula le barutwana mo sekeleng, di tshwanetse go tsepamedisiwa mo go ithuteng dipalo. Nako ya mo mosong fa bana ba dumedisiwa le fa lenaneo le tshwaiwa go bona ba bas a tlang sekolong, ke nako e neelanang ka tshono ya go tshameka ka dipalo, sekao go bala. Nako tse dingwe tsa go dula le bana mo sekeleng jaaka nako ya dipalo, perceptual motor mosakos, nako ya go itshikinya, nako ya mmino le nako ya bonetetshi di neelana gape ka nako go itsepamisa mo dipalong.

Kgatelelo ya dipalo e ka dirwa ka nako ya ditirwana tsa botsweretshi jwa boitlhamedi, sekao o ka dirisa dipopego tsa thutatekano jaaka disekele le dikhutlo-nne go dira kholaje kgotsa o bapisa paterone ya go foreima setshwantsho. Karata tsekedimo ya maemo a bosa, khalentara le nako ya malatsi a botsalo di ka neela ka ditshono tsa go utolola dikgopolo tsa dipalo. Ke kitso ya morutabana le boithaopi tse di ka godisang bokgoni jwa go ithuta .

- Ditiro tsa tlwaelo, ke dinako tse bana ba tsayang karolo ka matlhagatlhaga jaaka nako ya ja, nako ya go fitlha, nako ya go ya gae le nako ya go ya kwa ntlwaneng boithomelo, di ka nna tsa tsepamedisiwa mo dipalong.Bana ba ba apereng diaparo tse dikhibidu, sekao ba ye ntlwaneng boithomelo pele (mmala le palokemotatelano) ngwana mongwe le mongwe o newa dijo le sementshisi (bongwe ka bongwe nyalelano), Pinky o tla rata sementshisi ya bobedi, Pule ga a sa tlhole a batla gape. Se se se re isa mo go supeng le go diriseng nako ya go rut, ka mantswe a mangwe go nna mogokaganyi mo go ithuteng
- Ka nako ya motshameko o o gololosegileng morutabana a ka tsweletsa thuto ya dipalo tsa tshimologo ka go rulaganya lefelo la go tshameka motshameko o o gololosegile ka tsela e e maleba. Metshameko ya kwa ntle jaaka go palama mo polankeng kgotsa go palama baesekele go ka tsweletsa go ithuta dintlha kgolo tsa tlotlofoko ya dipalo jaaka godimo/tlase kwa tlase/kwa godimo, bonako/bonya, godimo/ fa fatshe jalo jalo. Go yshameka ka mmu le metsi go ka godisa go tlhaloganya dikgopolo jaaka boima, bolumu le mothamo. Ditirwana tse tsotlhe tse, di ka tsweletsa dkgono tse di botlhokwa, tse di ka nnang le karolo e e botlhokwa mo katlegong ya go ithuta kwa dikolong tsa dithuto tse di tlhomameng tsa serutwa sa letheresi le numeresi. Dikai tsa dikgono tse ke:
    - Kgodiso mo go tlhaloganyeng maemo a gago mo boalong sekao kwa morago, mo pele ga, ka fa tlase ga, go bapa le sediriswa (sekao se, se ka golaganngwa le boemo jwa bolengpalo mo dipalong) le
    - Tshupokaelo le tshupo kwalo (di ka golaganngwa go dipalo le popego ya ditlhaka le go bala go tswa kwa molemeng go ya kwa mojeng)

Tiragatso e neetsweng fa godimo, e kaetsa mokgwa wa dithuto tsa mophato wa R tse di tsweletsang tharabololo ya dipalo, kakanyo ka tatelano le neelano ya mabaka, ga mmogo le thuto ka ga boagi ka gonne di tsepamedisitswe mo go ithuteng le ba bangwe le dipuisano. Ka go dirisa dinako tsa go ruta barutabana ba ka rotloetsa bana go nagana ka ditshwetso tsa bona le go nna le ponelopele mo di kgonagalong sekao a fopholetse gore a setshelo se se diriseditsweng go tshela metsi se ka dirisediwa go tshela metsi a mantsi go feta a setshelo se sengwe.

Ka go dirisa ditshitshinyo tse di thusang le go laletsa ngwana go nagana ka ga thefosano ya maemo a a le ditsela tsa go rarabolola dipalo, morutabana a ka rotloetsa bana go nagana kwa teng thata ka ga mabaka le go bona mabaka a a siameng ka boikgethelo jo ba bo dirang. Ka tsela e, kgodiso ga e dirwe mo dipalong fela mme gape le mo ngwaneng ka bogotlhe le mosola wa pegelo ya polisi ya kharikhulamo ya tlhatlhobo o tlisiwa mo tirisong.

Tiragatso ya mekgwa ya tlhatlhobo mo mophatong wa R, e tshwanetse go dirwa ka tsela e e sa tlhomamang ebile bana ba seka ba patelediwa go kwala “teko”.Ke ka lebaka le o, tlhatlhobo e sa akarediwang mo mophatong wa R pegelo ya pholisi ya kharikulamo ya tlhatlhobo. Tirwana nngwe le nngwe ya e e dirisediwang tlhatlhobo e tshwanetse go rulaganngwa ka matsetseleko gore o kgone go akaretsa dikgono tse di farologaneng

Gantsi mo mophaong wa R, tlhatlhobo e dirwa ka go lebelela bana, morutabana a rekota dipholo tsa tlhatlhobo a dirisa lenaneo la go lekola. Ka ga moo, fa ngwaga o tsweletse morutabana o kgona go bona setshwano se se feletseng sa ngwana, se feletse ka dikgwetlho le maatla a a godileng mo nakong e e telele. Se se go naya tšhono ya go thusa ngwana yo o itemogelang dikgwetlho tse le gore o oketse maatla a gagwe.

O seka wa letlelela porogerama e rulagantsweng ka tsela e e tiileng, e e tlhomamisitsweng mo melaong ya kgale ya go ithuta, ka gonne ga e oketse ditšhono tsa go ithuta dipalo mo ngwaneng wa mophato wa R. Mophato wa R o seka wa rutiwa ka tsela ya mophato wa 1. Phaposi e, e na le dipharologantsho tse di ikaegileng ka gore ngwana o o dira jang gore a nne le bokao go ya ka dingwaga tse a leng mo go tsona le gore o bona jang kitso, dikgono, boleng le maitsholo a a mo letlelelang go oketsa ditshono tse a di newang mo dingwageng tsa thuto ya gagwe e e tlhomameng.

2.9 DIDIRISWA TSE DI ATLENEGISITSWENG TSA DIPALO TSA PHAPOSI YA KGATO MOTHEO

- Dipadisa
- Taese e tonna
- Letlhomeso le legolo(foraime)la go bala
- Karata tsekedimo ya boleele
- Pousetara ya 1-100 le 101-200 ya gerete ya dipalo tsa go bala
- Melapalo e e farologaneng(Tse di tsepameng le tse di rapeletseng)
- Sete ya dikarata tsa dipalo
- Tšhelete a go tshameka disente le tšhelete dipampiri a motshameko
- Khalentara ya ngwaga eo
- Tshupanako e tonna
- Sekale sa boima
- Diboloko tsa go aga
- Seloko sa go bopa
- Mabokose a a farologaneng a dipopego tse di fapaneng le bogolo di tlisiwa go tswa kwa gae.
- Mabotlole a dipolasitiki a a farologaneng le ditshelo tsa go tlhalosa le go bapisa methamo/dibolumu.
- Dikai tse di siameng tsa kgolokwe (bolo) lebokose la khutlonnetsepa (lebokose), kubiki (cube), setopo (cone), piramiti (pyramid) le selennere (cylinder) tse, morutabana o di bopa ka boene.
- Palo ya dikhutlonne tsa dipolasitiki le mabokose, dikhutlonnetsepa tse di farologaneng, didiko, dikhutlotharo tsa bogolo jo bo farologaneng.
- Metshameko ya dipalo, sekao, luto (ludo), morabaraba wa dinoga le llere (snake and ladder), malepatshwantsho (jigsaw puzzle), ditomino (dominoes), metshameko wa malepa ka tlhale (tangrams)
- Di botlhokwa go mophato wa R le 1.
- Boalo jwa motlhaba le motshameko wa metsi.
- Didiriswa tsa go palama, lekanetsa, go akgwa le kgati.
- Lebenkele la motshameko ka dilwana tse di rekwang ka tshelete ya motshameko.
- Metshameko e farologaneng e e maleba, jaaka “Khutlonne ke eng?”
- Diboloko

KGAOLO 3: TLHALOSO YA DITENG TSE DI TOTOBETSENG

3.1 MATSENO

Mo Sekgamung sa Thuto-Kakaretso le Katiso sa mephato ya R-9, go na le dikarolo tsa diteng tsa serutwa sa Dipalo di le tlhano:

- Dipalo, Matshwao le Dikgolagano
- Dipaterone, Diopereishene le Alejebera
- Boalo le Popego
- Tekanyo
- Go dira ka dipalo tsa tshedimosetso

Diteng tsa serutwa sengwe le sengwe di kgaogantswe ka ditlhogo tsa dipalo, sekao, nngwe ya ditlhogo mo karolong ya Boalo le jeometeri) mo Kgatong ya Motheo, ke ka ga tekatekanyopedi/matlhakorepedi (2-D). Dikgopolo le dikgono di totobaditswe mo setlhogong sengwe le sengwe. Kgaolo ya 3 ya Dipalo tsa Kgato ya Motheo ya Pegelo ya Pholisi ya Kharikhulamo le Tlhatlhabo e totobatsa le go tlhalosa diteng tse di tlhokegang tsa dipalo.

3.2 TOTOBATSO YA DITENG GO BONTSHA TSWELELOPELE

Manaane a thadiso ya kgato a bontsha dikgopolo le dikgono tse di totobetseng le tsweletso go tswa mo mophatong wa R go ya go wa 3. Manaane a thadiso ya kgato a bontsha tsweletso ya dikgopolo le dikgono go ralala dikgweditharo di le nne mo ngwageng.

Le gale, mo ditlhogong tse di rileng dikgopolo le dikgono di a tshwana mo mephatong e mebedi kgotsa e meraro e e latelanang. Tlhaloso ya diteng e tla neela dikaelo tse di bontshang gore tswelelopele e tshwanetse e dirwe jang mo mabakeng a a tshwanang le a. Ka moo, totobatso ya diteng e tshwanetse go buisiwa mmogo le tlhaloso ya diteng

Thadiso ya Kgato ya Motheo e bontsha tsweletso ya dikarolo tsa diteng; Dipalo, Matshwao le Dikgolagano, Dipaterone, Ditiriso le Alejebera, Boalo le Popego, Tekanyo le Go dira ka Dipalo tsa Tshedimosetso go tswa go mophatong wa R-3 jaaka e tlhagisitswe mo manaaneng a a fa tlase:

THADISO YA KGATO YA MOTHEO

1. DIPALO, DIOPEREISHENE LE DIKGOLAGANO

Kgatelopele mo Dipalong, Diopereishene le Dikgolagano

- Kgatelopele e kgolo ya Dipalo, Diopereishene le Dikgolagano e diragala ka ditsela di le tharo:
  - Tlhatlhamano ya dipalo e a oketsega
  - Mefuta e e farologaneng ya dipalo e a itsisiwe
  - Ditogamaano tsa palelo di a fetoga
- Fa tlhatlhamano ya dipalo ya dipalelo e oketsega go fitlha mo mophatong wa 3, barutwana ba tshwanetse go bontsha bokgoni jo bo lekaneng mo ditogamaanong tsa dipalelo.
- Mathata a a mo tirisong a tshwanetse go tsaya tsia tlhatlhamano ya dipalo tsa mophato mmogo le bokgoni jwa barutwana jwa go balela.

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
KGODISO YA PALOKGOPOLO: Bala o dirisa dipalotlalo				
1.1 **Bala didiriswa**	**Bala didiriswa tse di kgonngwang** Fopholetsa le go bala ka botshepegi, ka bonnye didiriswa go fitlha ka10 letsatsi le letsatsi.	**Bala didiriswa tse di kgonngwang** Fopholetsa le go bala ka botshepegi, ka bonnye didiriswa go fitlha ka 50 letsatsi le letsatsi.Go bala ka ditlhopha go rotloediwe.	**Bala didiriswa tse di kgonngwang** Fopholetsa le go bala ka botshepegi, ka bonnye go fitlha ka 200 letsatsi le letsatsi. Go bala ka ditlhopha go rotloediwe.	**Bala didiriswa tse di kgonngwang** Fopholetsa le go bala ka botshepegi, ka bonnye go fitlha ka 1000 letsatsi le letsatsi.Go bala ka ditlhopha go rotloediwe.
1.2 **Bala go ya pele le kwa morago**	Go balela-pele le go balela morago ka bongwe go tloga ka 1 go fitlha ka 10. Dirisa dipalo tsa dipina le diraeme.	Go balela-pele le go balela morago ka bongwe go tloga ka palo nngwe le nngwe e e mo magareng ga 0 go fitlha ka 100 **Go balela-pele ka**: • bolesome (10s) go tloga ka katiso nngwe le nngwe ya bolesome e e mo magareng ga 0 le 100 • botlhano (5s) go tloga ka katiso nngwe le nngwe ya botlhano e e mo magareng ga 0 le 100 • bobedi (2s) go tloga ka katiso nngwe le nngwe ya bopedi magareng ga 0 le 100	Go balela-pele le go balela morago ka: • bongwe (1s) go tloga ka palo nngwe le nngwe e e mo magareng ga 0 le 200 • bolesome (10s) go tloga katiso nngwe le nngwe ya bo10 e e mo magareng ga 0 le 200 • botlhano (5s) go tloga ka palo nngwe le nngwe ya katiso ya 5 e e mo magareng ga 0 le 200 • bobedi (2s) go tloga ka palo nngwe le nngwe ya katiso ya 2 e e mo magareng ga 0 le 200 • boraro (3s) go tloga ka palo nngwe le nngwe ya katiso ya 3 e e mo magareng ga 0 le 200 • bone (4s) go tloga ka palo nngwe le nngwe ya katiso ya 4 e e mo magareng ga 0 le 200	Go balela-pele le go balela morago ka: • bongwe (1s) go tloga ka palo nngwe le nngwe e e mo magareng ga 0 le 1000 • bolesome (10s) go tloga ka palo nngwe le nngwe ya katiso ya 10 e e mo magareng ga 0 le 1000 • botlhano (5s) go tloga ka palo nngwe le nngwe ya katiso ya 5 e e mo magareng ga 0 le 1000 • bopedi (2s) go tloga ka palo nngwe le nngwe ya katiso ya 2 e e mo magareng ga 0 le 1000 • botharo (3s) go tloga ka palo nngwe le nngwe ya katiso ya 3 e e mo magareng ga 0 le 1000 • bonne (4s) go tloga ka palo nngwe le nngwe ya katiso ya 4 e e mo magareng ga 0 le 1000 • bo 20,bo 25, bo 50, b0 100 go fitlha bonnye ka 1000.

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
KGODISO YA PALOKGOPOLO: Kemedi ya palotlalo				
	Bua le go dirisa mainapalo mo tirisong e e tlwaelegileng.			
1.3 **Matshwaopalo le mainapalo**	**Lemoga, tlhaola le go buisa dipalo** • Lemoga,tlhaola le go buisa matshwapalo go tloga ka 1 go fitlha 10 • Lemoga,tlhaola le go buisa mainapalo go tloga ka 1 go fitlha 10	**Lemoga,tlhaola le go buisa matshwaopalo** • Lemoga,tlhaola le go buisa letshwaopalo go tloga ka 1 go fitlha 100 • Kwala letshwaopalo go tloga ka 1 le go fitlha 20 • Lemoga,tlhaola le go buisa mainapalo go tloga ka 1 go fitlha 10 • Kwala leinapalo go tloga ka 1 go fitlha 10	**Lemoga,tlhaola le go buisa matshwaopalo** • Lemoga,tlhaola le go buisa matshwaopalo go tloga ka 0 go fitlha ka 200 • Kwala matshwaopalo go tloga ka 0 go fitlha ka 100 • Lemoga,tlhaola le go buisa leinapalo go tloga ka 0 go fitlha ka 100 • Kwala leinapalo go tloga ka 0 go fitlha 100.	**Lemoga,tlhaola le go buisa dipalo** • Lemoga,tlhaola le go buisa matshwaopalo go tloga ka 0 go fitlha ka 1000 • Kwala matshwaopalo go tloga ka 0 go fitlha ka 1000 • Lemoga,tlhaola le go buisa mainapalo go tloga ka 0 go fitlha ka 1000 • Kwala leinapalo go tloga ka 0 go fitlha 1000.
KGODISO YA KGOPOLOPALO:Tlhalosa,bapisa le go rulaganya dipalotlalo				
1.4 **Tlhalosa, bapisa le go rulaganya dipalo**	**Tlhalosa,bapisa le go rulaganya kgobokanyo ya didiriswa go fitlha ka 10** • Tlhalosa palotlalo go fitlha ka 10 • Bapisa dilo tse pedi tse o di neilweng o bolele gore ke efe e e leng kgolo,nnye go,e kgolo go, e e lekanang le,e ntsi, tse mmalwa go fitlha ka 10 • Rulaganya didiriswa tse di kgobokantsweng tse di fetang tse pedi go tloga go e nnye go ya go e kgolo go fitlhela 10.	**Tlhalosa,bapisa le go rulaganya didiriswa go fitlha ka 20** • Tlhalosa le go bapisa didiriswa tse di kgobokantsweng go ya ka bontsi, bonnye le tse di tshwanang • Tlhalosa le go rulaganya didiriswa tse di kgobokantsweng go tloga ka tse dintsi go ya go tse di mmalwa le go tloga go tse mmalwa go ya go go tse dintsi.		

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
1.4 **Tlhalosa, bapisa le go rulaganya dipalo**	**Dirisa lebaditatelano go bontsha tatelano,lefelo kgotsa maemo**: Godisa temoso ka ga lebadi tatelano sekao:ya ntlha, ya bobedi, ya boraro go fitlha go ya borataro le ya bofelo.	**Tlhalosa, bapisa le go rulaganya dipalo go fitlha ka 20** • Tlhalosa le go bapisa palotlalo go ya ka e nnye go,e kgolo go le e ntsi go, le e e lekanang le. • Tlhalosa le go rulaganya dipalo go ya ka bonnye go fitlha ka bogolo le bogolo go fitlha ka bonnye. **Dirisa lebaditatelano go bontsha thulaganyo,lefelo le maemo**: Baya didiriswa mo moleng go tloga ka ya ntlha go ya go ya lesome kgotsa ya ntlha go fitlha ka ya bofelo sekao: ya ntlha, ya bobedi, ya boraro……. Bo lesome.	**Tlhalosa,bapisa le go rulaganya dipalo go fitlha 99** • Tlhalosa le go bapisa palotlalo go fitlha 99 ka go dirisa bonnye go,kgolo go, ntsi go le e e lekanang le. • Tlhalosa le go rulaganya dipalo go fitlha ka 99 go tloga go e nnye go fitlha kwa go e kgolo le e e kgolo go fitlha go e e nnye **Dirisa lebaditatelano go bontsha thulaganyo,lefelo kgotsa maemo** Baya didiriswa ka ya ntlha go fitlha ka ya bosome-a-mabedi kgotsa ya ntlha go fitlha ka ya bofelo sekao: ya ntlha, ya bobedi, ya boraro…..ya bosomeamabedi.	**Tlhalosa,bapisa le go rulaganya dipalo go fitlha 999** • Tlhalosa le go bapisa palotlalo go fitlha 999 ka go dirisa nnye go ,kgolo go le e lekana le. • Tlhalosa le go rulaganya palotlalo go fitlha ka 999 go tloga ka e e nnye go fitlha ka e kgolo le e kgolo go fitlha go e nnye. **Dirisa lebaditatelano go bontsha thulanyo,lefelo kgotsa maemo** Dirisa,buisa le go kwala lebaditatelano o akaretsa khutshwafatso (ya ntlha, ya bobedi, ya boraro go fitlha ka ya bosomeamararo-nngwe)
KGODISO YA KGOPOLOPALO:Bolengkemedi				
1.5 **Bolengkemedi**		**Simolola go lemoga bolengkemedi ba bonnye ba palopedi go fitlha ka 20** • Tlhatlhamolola palomonopedi mo dikatisong tsa 10 le bongwe.	**Lemoga bolengkemedi ba bonnye ba palopedi go fitlha 99** • Tlhatlhamolola palomonopedi go fitlha ka 99 mo dikatisong tsa 10 le bongwe. • Tlhaola le go bolela bolengpalo jwa palo nngwe le nngwe.	**Lemoga bolengpalo jwa palotharogo fitlha ka 999** • Tlhatlhamolola palomonotharo go fitlha ka 999 mo dikatisong tsa 100,dikatiso tsa 10 le bongwe/ diyuniti • Tlhaola le go neela boleng jwa palo nngwe le nngwe.

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
GO RARABOLOLOLA MATHATA A A MO TIRISONG				
1.6 **Ditogamaano tsa go rarabolola dipalo**	Dirisa ditogamaano tse di latelang go fitlha ka 10: • Didiriswa tse di kgonngwang sekao dibadisi • Llere ya dipalo e e bonagalang	Dirisa ditogamaano tse di latelang fa o rarabolola dipalo le go tlhalosa ditharabololo tsa dipalo: • Didiriswa tse di kgonngwang sekao:dibadisi • Ditshwantsho go thala kgang ya dipalo. • Go aga le go kgaoganya dipalo. • Go oketsa gabedi le go kgaoganya ka bogare. • Melapalo e e tshegetswang ka didiriswa tse di kgonngwang	Dirisa ditogamaano tse di latelang fa o rarabolola dipalo le go tlhalosa ditharabololo tsa dipalo: • Dithalo kgotsa didiriswa tse di kgonngwang sekao:dibadisi • Go aga le go kgaoganya dipalo • Go oketsa gabedi le go kgaoganya ka bogare • melapalo	Dirisa ditogamaano tse di latelang fa o rarabolola dipalo le go tlhalosa tharabololo tsa dipalo: • Go aga le go kgaoganya dipalo • Go oketsa gabedi le go kgaoganya ka bogare. • melapalo • atametsa go bolesome
1.7 **Go tlhakanya le go ntsha**	Rarabolola didipalofoko mo tirisong le go tlhalosa tharabololo ya gago ya dipalo tse di akaretsang go tlhakanya le go ntsha ka dikarabo tse di fitlhang go 10	Rarabolola dipalofoko mo tirisong le go tlhalosa tharabololo ya gago ya dipalo tse di akaretsang go tlhakanya le go ntsha ka dikarabo tse di fitlhang ka 20	Rarabolola dipalofoko mo tirisong le go tlhalosa tharabololo ya gago ya dipalo tse di akaretsang go tlhakanya le go ntsha ka dikarabo tse di fitlhang ka 99.	Rarabolola dipalofoko mo tirisong le go tlhalosa tharabololo ya gago ya dipalo tse di akaretsang go tlhakanya le go ntsha tsa dikarabo tse di fitlhang go 999
1.8 **Tlhakanyo poeletso e e isang kwa go atiseng**		Rarabolola dipalofoko mo tirisong le go tlhalosa tharabololo ya gago ya dipalo tse di akaretsang go tlhakanya ka poeletso ka dikarabo tse di fitlhang go 20.	Rarabolola dipalofoko mo tirisong le go tlhalosa tharabololo ya gago ya dipalo o dirisa poeletso ya go tlhakanya le go atisa ka dikarabo tse di fitlhang go 50.	Rarabolola dipalofoko mo tirisong le go tlhalosa tharabololo ya gago ya dipalo o dirisa katiso ka dikarabo tse di fitlhang go 100.
1.9 **Go kgobokanya le go kgaoganya go go lebiseditseng kwa go aroleng**	Rarabolola le go tlhalosa dipalofoko mo tirisong e e akaretsang go kgaoganya ka go lekana,go kgobokanya ka dipalotlalo go fitlha ka 10 le dikarabo tse di ka akaretsang sesala	Rarabolola le go tlhalosa tharabololo ya dipalo di le mo tirisong tse di akaretsang go kgaoganya ka go lekana le go kgobokanya ka dipalotlalo tsa go fitlha ka 20 le dikarabo tse di ka akaretsang sesala.	Rarabolola le go tlhalosa tharabololo ya dipalo tse di mo tirisong tse di akaretsang go kgaoganya ka go lekana le go kgobokanya go fitlha ka 50 le dikarabo tse di ka akaretsang sesala.	Rarabolola le go tlhalosa tharabololo ya dipalo tse di mo tirisong tse di akaretsang go kgaoganya ka go lekana le go kgobokanya go fitlha ka 100 dikarabo tse di ka akaretsang sesala.
1.10 **Kgaoganyo e telele ya palophatlo**			Rarabolola le go tlhalosa tharabololo ya dipalo tse di mo tirisong tse di akaretsang kgaoganyo ka go lekalekana e e lebisitseng kwa thararabololong e e akaretsang dipalophatlo tse di tsamaelanang	Rarabolola le go tlhalosa tharabololo ya dipalo tse di mo tirisong tse di akaretsang kgaoganyo ka go lekalekana e lebisitse kwa tharabololong e e akaretsang dipalophatlo tse di tsamaelanang le tse di sa tsamaelaneng.

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
1.11 **Tšhelete ya papetlana**	Godisa temogo ya tšhelete a papetlana le tšhelete a dipampiri a Aforika Borwa	• Lemoga le go tlhaola tšhelete a papetlana a Aforika Borwa (5c, 10c, 20c, 50c, R1, R2, R5) tšhelete a dipampiri R10, R20 • Rarabolola dipalo tsa tšhelete a a akaretsang palogotlhe le tšhelete a a salang fa o reka le go fetolela R20 go tšhelete a ditshipi ka bo 20c	• Lemoga le go tlhaola tšhelete a papetlana a Aforika Borwa (le tšhelete a dipampiri) • Rarabolola dipalo tsa tšhelete a a akaretsang palogotlhe le tšhelete a a salang fa o reka le go fetolela R99 go tšhelete a ditshipi ka bo 90c	• Lemoga le go tlhaola tšhelete otlhe a Aforika Borwa a tshipi/papetlana le a dipampiri • Rarabolola dipalo tsa tšhelete a a akaretsang palogotlhe le go fetolela diranta mo disenteng. • Fetolela magareng ga diranta le disente
Palelo e e seng mo tirisong				
1.12 **Dithekeniki/** **Malepa** (mekgwa kgotsa ditogamaano)		**Dirisa ditogamaano tse di latelang go diragatsa palelo.** • Go thala kgotsa go dirisa didiriswa tse di kgonngwang sekao: dibadisi • Go aga le go kgaoganya dipalo • Go oketsa gabedi le go aroganya ka bogare • Molapalo	**Dirisa ditogamaano tse di latelang go diragatsa palelo.** • Go thala kgotsa go dirisa didiriswa tse di kgonngwang, sekao dibadisi • Go aga le go kgaoganya dipalo • Go oketsa gabedi le go aroganya ka bogare • Molapalo	**Dirisa ditogamaano tse di latelang go diragatsa palelo.** • Go aga le go kgaoganya dipalo • Go oketsa gabedi le go aroganya ka bogare • Molapalo • Katametso go lesome
1.13 **Go tlhakanya le go ntsha/tlosa**	Rarabolola dipalo tse di boletsweng ka go tlhakanya le go ntsha mme o neele ditharabololo go fitlha ka 10	• Tlhakanya go fitlha ka • Ntsha go tswa go fitlha ka • Dirisa matshwao a a maleba (+, –, =, □) • Ikatiso kgolagano ya dipalo tse di fitlhang go	• Tlhakanya go • Ntsha go tswa go • Dirisa matshwao a maleba (+, –, =, □) • Ikatiso kgolagano ya dipalo tse di fitlhang go	• Tlhakanya go • Ntsha go tswa go • Dirisa matshwao a maleba (+, –, =, □) • Ikatiso kgolagano ya dipalo tse di fitlhang go
1.14 **Tlhakanyo-poeletso e e lebisang kwa go atiseng**		• Tlhakanya dipalo tse di tshwanang o di boeletsa go fitlha ka 20 • Dirisa matshwao a a maleba (+, =, □)	• Atisa dipalo go fitlha go kale go palogotlhe ya • Dirisa matshwao a a maleba (+, x, =, □)	• Atisa palo nngwe le nngwe go 2,3,4,5,10 go palogotlhe ya 100 • Dirisa matshwao a a maleba (x, □)
1.15 **Go arola**				• Arola dipalo tse di fitlhang go 100 ka 2,3,4,5,10 • Dirisa matshwao a maleba (÷, =, □)

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
1.16 **Dipalo tsa tlhogo**	Dipalokgopolo: tlhatlhamano ya 10 Tirwana nngwe le nngwe e simolola ka dipalo tsa tlhogo • Go bala didiriswa letsatsi le letsatsi • Go balela kwa pele le morago • Go bala dipalo ka tatelano • Opa diatla ga ntsi/gole gonnye ka nako • Ke kopo efe ya diatla e e leng ntsi thatathata,nnye thatathata, ntsi go feta, nnye go feta. • Ke palo efe e e latelang pele, morago, fa gare.	**Dipalokgopolo: Tlhatlhamano ya 20** • Naya dipalo tse di mo pele le mo morago ga palo e o e neetsweng. • Rulaganya sete ya dipalo e e neetsweng e e tlhophilweng. • Bapisa dipalo go fitlha go 20 mme o neele gore ke efe e e leng 1 le e e leng 2 go feta kgotsa e le nnye.	**Dipalokgopolo:Tlhatlhamano ya 99** • Rulaganya sete ya dipalo e e neetsweng e e tlhophilweng. • Bapisa dipalo go fitlha go 99 mme o neele gore ke efe e e leng 1, 2, 3, 4, 5 le 10 le e e fetang kgotsa e le nnye.	**Dipalokgopolo:Tlhatlhamano ya 1000** • Rulaganya sete ya dipalo e e neetsweng e e tlhophilweng. • Bapisa dipalo go fitlha go 1000 mme o neele gore ke efe e e leng 1, 2, 3, 4, 5 le 10 le e e fetang kgotsa e le nnye.
		Gopola ka bonako: • Dintlha ka go tlhakanya le go ntsha go fitlha ka 10 **Ditogamaano tsa palelo** Dirisa ditogamaano tsa palelo go tlhakanya le go ntsha sentle: • Baya palo e kgolo pele gore o kgone go balela-pele kgotsa kwa morago. • Molapalo • Go oketsa gabedi le go aroganya ka bogare • Go aga le go kgaoganya dipalo	**Gopola ka bonako:** • Dintlha ka go tlhakanya le go ntsha go fitlha ka 20 • Go tlhakanya kgotsa go ntsha dikatisanetso tsa ga 10 go tloga ka 0 go fitlha ka 100 **Ditogamaano tsa palelo** Dirisa ditogamaano tsa palelo go tlhakanya le go ntsha sentle: • Baya palo e kgolo pele gore o kgone go balela-pele kgotsa kwa morago. • Molapalo • Go oketsa gabedi le go aroganya ka bogare • Go aga le go kgaoganya dipalo • Dirisa dikgolagano magareng ga go tlhakanya le go ntsha.	**Gopola ka bonako:** • Gakologelwa dintlha ka go tlhakanya le go ntsha go fitlha ka 20 • Tlhakanya kgotsa ntsha dikatisanetso tsa 10 go tloga ka 0 go fitlha 100 • Dintlha ka ga dikatiso tsa: - Mananeo a katiso ya bo 2 e e nang le dikarabo go fitlha go 20 - Mananeo a katiso ya bo10 e e nang le dikarabo go fitlha go 100 • Dintlha ka ga go arola dipalo: - Dipalo tse di fitlhang ka 20 di kgona go aroganngwa ka 2. - Dipalo tse di fitlhang ka 100 di kgona go aroganngwa ka 10. **Ditogamaano tsa palelo** Dirisa ditogamaano tsa palelo go tlhakanya le go ntsha sentle: • Baya palo e kgolo pele gore o kgone go balela-pele kgotsa kwa morago. • Molapalo • Go oketsa gabedi le go aroganya ka bogare • Go aga le go kgaoganya dipalo • Dirisa dikgolagano magareng ga go tlhakanya le go ntsha. • Dirisa dikgolagano magareng ga go atisa le go arola.

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
1.17 **Dipalophatlo**			• Dirisa le go neela dipalophatlo tse di tsamaelanang le tse di sa tsamaelaneng mo tirisong e e tlwaelegileng e e akaretsang dihalofo, nnagwe-nneng, nngwe tharong, nngwe thatarong le nngwe tlhanong. • Lemoga dipalophatlo mo popegong ya setshwantsho • Kwala dipalophatlo jaaka halofo.	• Dirisa le go neela dipalophatlo tse di tsamaelanang le tse di sa tsamaelaneng mo tirisong e e tlwaelegileng e e akaretsang dihalofo, nnagwe-nneng, nngwe tharong, nngwe robeding, nngwe thatarong le nngwe tlhanong. • Lemoga dipalophatlo mo popegong ya setshwantsho. • Simolola go lemoga dihalofo tse pedi kgotsa nngwe tharong tse pedi di bopa palotlalo e le nngwe le gore pedi-nneng e a lekalekana. • Kwala dipalophatlo jaaka halofo e le 1, pedi-tharong.

THADISO YA KGATO YA MOTHEO

2. DIPATERONE, DITIRISO LE ALEJEBERA

Tsweletso mo Dipateroneng, Ditiriso le Alejebera

- Mo Dipateroneng, Ditiriso le Alejebera, barutwana ba bona ditšhono tsa go:
  - Feleletsa le go atolosa dipaterone tse di tshwantshitsweng ka dipopego tse di farologaneng, le
  - Go tlhaola le go tlhalosa dipaterone.
- Go tlhalosa dipaterone go thaya motheo mo barutwaneng ba Kgato ya Bogare go tlhalosa melao ya dipaterone. Se, se tlhomamisiwa mo Kgatong e Kgolwane mo tirong ya Alejebera

DITENG	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
2.1 **Dipaterone tsa Jeometeri**	**Kopolola le go atolosa** Kopolola le go atolosa dipaterone tse di bonolo o dirisa didiriswa tse di kgonngwang le ditshwantsho (sekao, dirisa mmala le dipopego)	**Kopolola, atolosa le go tlhalosa** Kopolola , atolosa le go tlhalosa ka mafoko • dipaterone tse di bonolo tse di dirilweng ka didiriswa tse di kgonngwang • dipaterone tse di bonolo tse di tshwantshitsweng ka mela, dipopego kgotsa didiriswa **Bopa dipaterone tsa gago** Bopa dipaterone tsa gago tsa Jeometeri • Ka didiriswa tse di kgonngwang • ka go thala mela, dipopego kgotsa didiriswa **Dipaterone tse di re potapotileng** Tlhaola, tlhalosa ka mafoko le go kopolola dipaterone tsa Jeometeri • mo tlholegong • go tswa mo botshelong jwa matsatsi a gompieno • go tswa mo go tsa setso	**Kopolola, atolosa le go tlhalosa** Kopolola , atolosa le go tlhalosa ka mafoko • dipaterone tse di bonolo tse di dirilweng ka didiriswa tse di kgonngwang • dipaterone tse di boima tse di ditshwantshitsweng ka mela, dipopego kgotsa didiriswa **Bopa le go tlhalosa dipaterone tsa gago** • Ka didiriswa tse di kgonngwang • ka go thala mela, dipopego kgotsa didiriswa **Dipaterone tse di re potapotileng** Tlhopha, tlhalosa ka mafoko le go kopolola dipaterone tsa Jeometeri • mo tlholegong • go tswa mo botshelong jwa matsatsi a gompieno • go tswa mo go tsa setso	**Kopolola, atolosa le go tlhalosa** Kopolola , atolosa le go tlhalosa ka mafoko • dipaterone tse di bonolo tse di dirilweng ka didirisegi • dipaterone tse di boima tse ditshwantshitsweng ka mela, dipopego kgotsa didiriswa **Bopa le go tlhalosa dipateron tsa gago** • Ka didiriswa tse di kgonngwang • ka go thala mela, dipopego kgotsa didiriswa **Dipaterone tse di re potapotileng** Supa, tlhalosa ka mafoko le go kopolola dipaterone tsa thutotekatekanyo • mo tlholegong • go tswa mo botshelong jwa matsatsi a gompieno • go tswa mo go tsa setso
2.2 **Dipaterone tsa Dipalo**		**Kopolola, atolosa le go tlhalosa** Kopolola, atolosa le go tlhalosa tatelano e e bonolo ya dipalo go fitlha go 100 **Bopa le go tlhalosa dipaterone tsa gago**	**Kopolola, atolosa le go tlhalosa** Kopolola, atolosa le go tlhalosa tatelano e e bonolo ya dipalo go fitlha go 200 **Bopa le go tlhalosa dipaterone tsa gago**	**Kopolola, atolosa le go tlhalosa** Kopolola, atolosa le go tlhalosa tatelano e e bonolo ya dipalo go fitlha go 999 **Bopa le go tlhalosa dipaterone tsa gago**

THADISO YA KGATO YA MOTHEO

3. BOALO LE POPEGO (JEOMETERI)

Tsweletso/kgatelopele ya Boalo le Popego (Jeometeri)

Tsweletsokgolo ya Boalo le Popego e fitlhelelwa ka :

- go tsepama mo dipharologantshong le dipopego tse dintšhwa le didiriswa mo mophatong mongwe le mongwe, le
- go tswa mo go ithuteng puo ya maemo le go tshwantsha dikakanyo tse di farologaneng tsa didiriswa tse di tshwanang, go ya mo puisong le go sala di bala le go latela dikaelo morago mo dimmapeng tse di sa tlhomamang

DITENG	MOPHATO WA R	MOPHATO 1	MOPHATO 2	MOPHATO 3
3.1 **Maemo, kitsiso le dipono**	**Puo ka ga maemo a didiriswa** Tlhalosa maemo a sediriswa se le sengwe mabapi le sediriswa se sengwe, sekao fa godimo ga, fa pele ga, fa morago, fa molemeng, fa mojeng, kwa godimo, kwa tlase, go bapa le.	**Puo ka ga maemo a didiriswa** Tlhalosa maemo a sediriswa se le sengwe mabapi le sediriswa se sengwe, sekao fa godimo ga, fa pele ga, fa morago, fa molemeng, fa mojeng, kwa godimo, kwa tlase, go bapa le.	**Puo ka ga maemo a didiriswa** Tlhalosa maemo a sediriswa se le sengwe mabapi le sediriswa se sengwe sekao fa godimo ga, fa pele ga, fa morago, fa molemeng, fa mojeng, kwa godimo, kwa tlase, go bapa le.	
		Maemo le dipono • Lemoga le go bapisa dipono tse di farologaneng ka ga didiriswa tse di tshwanang tsa letsatsi le letsatsi	**Maemo le dipono** • Lemoga le go bapisa dipono tse di farologaneng ka ga didiriswa tse di tshwanang tsa letsatsi le letsatsi	**Maemo le dipono** • Lemoga le go bapisa dipono tse di farologaneng ka ga didiriswa tse di tshwanang tsa letsatsi le letsatsi • Neela leina la sediriswa sa letsatsi le letsatsi fa o bontshiwa sengwe se se sa tlwaelegang ka ga sona. • Buisa, ranola le go thala dimmapa tse di sa tlhomamang, kgotsa kakanyokgolo ka ga didiriswa tse di kgobokantsweng. • Batla didiriswa mo dimmapeng.
	Maemo le dikaelo • Latela dikaelo tsa go tsamaya mo phaphosing.	**Maemo le dikaelo** • Latela dikaelo tsa go tsamaya mo phaphosing. • Latela ditaelo tsa go baya sediriswa se le sengwe go ya ka nyalano ya sona, sekao baya phensele ka fa morago ga lebokoso.	**Maemo le dikaelo** • Latela dikaelo tsa go tsamaya mo phaphosing.	**Maemo le dikaelo** • Latela dikaelo tsa go tsamaya mo phaphosing. • Neela dikaelo tsa go tsamaya mo phaphosing le mo sekolong. • Latela dikaelo go tloga mo lefelong le rileng go ya go le lengwe mo mmapeng o o sa tlhomamang.

DITENG	MOPHATO WA R	MOPHATO 1	MOPHATO 2	MOPHATO 3
3.2 **Didiriswa tsa tekanotlhakoretharo/ matlhakoretharo** **(3-D)**	**Tlhatlhamano ya didiriswa** Lemoga le go neela leina la didiriswa tsa tekanotlhakoretharo (3-D) mo phaphosing • Dipopego tsa bolo • Dipopego tsa mabokose **Diponagalo tsa didiriswa** Tlhalosa, tlhaola le go bapisa didiriswa tsa tekatekanotlhakoretharo go ya ka: • bogolo • mmala • didiriswa tse di kgokologang • didiriswa tse di relelang **Ditirwana tse di lebelelwang** • Dirisa didiriswa tsa tekanotlhakoretharo (3-D) jaaka diboloko tse di agang, didiriswa tse di latlhilweng mme di ka dirisiwa gape, jalo jalo go bopa didiriswa tse di kopaneng sekao dithawa, ,marogo jalo jalo	**Tlhatlhamano ya didiriswa** Lemoga le go neela leina la didiriswa tsa tekanotlhakoretharo (3-D) mo phaphosing • Dipopego tsa bolo • Dipopego tsa mabokose **Diponagalo tsa didiriswa** Tlhalosa, tlhaola le go bapisa didiriswa tsa tekatekanotlhakoretharo go ya ka: • bogolo • mmala • didiriswa tse di kgokologang • didiriswa tse di relelang **Ditirwana tse di lebelelwang** • Tlhokomela le go aga didiriswa tsa tekanotlhakoretharo (3-D) a dirisa didiriswa tse di kgonngwang jaaka diboloko tse di agang, didiriswa tse di latlhilweng mme di ka dirisiwa gape, didiriswa tsa kago.	**Tlhatlhamano ya didiriswa** Lemoga le go neela leina la didiriswa tsa tekatekanotlhakoretharo (3-D) mo phaphosing • Dipopego tsa bolo • Dipopego tsa mabokose • Diselennere **Diponagalo tsa didiriswa** Tlhalosa, tlhaola le go bapisa didiriswa tsa tekatekanotlhakoretharo go ya ka: • bogolo • mmala • didiriswa tse di kgokologang • didiriswa tse di relelang **Ditirwana tse di lebelelwang** • Lebelela le go aga didiriswa tsa tekanotlhakoretharo (3-D) a dirisa didiriswa tse di kgonngwang jaaka dipopego tsa tekanyotlhakorepedi (2-D) tse di segolotsweng, diboloko tse di agang, didiriswa tse di latlhilweng mme di ka dirisiwa gape , didiriswa tsa kago, didiriswa tsa tekanotlhakoretharo (3-D) tsa Jeometeri.	**Tlhatlhamano ya didiriswa** Lemoga le go neela ka leina la didiriswa tsa tekanotlhakoretharo (3-D) mo phaphosing le mo ditshwantshong • Dipopego tsa bolo (spheres) • Dipopego tsa mabokose (porisimo) • selenere • phiramiti • dikhounu **Diponagalo tsa didiriswa** Tlhalosa, tlhaola le go bapisa didiriswa tsa tekatekanotlhakoretharo go ya ka: • dipopego tlhakorepedi tse di bopang difatlhego tsa didiriswa tsa tekanotlhakoretharo (3-D) • Boalo jo bo rapaletseng kgotsa jo bo obegileng/legaba kgotsa **Ditirwana tse di lebelelwang** • Lebelela le go aga didiriswa tsa tekanotlhakoretharo (3-D) a dirisa didiriswa tse di kgonngwang jaaka dipopego tsa tekanotlhakorepedi (2-D) tse di segolotsweng, mmu wa seloko, matlhokwa a a ntshang dijo mo menong, didiriswa tsa tekanotlhakoretharo (3-D) tsa Jeometeri.

DITENG	MOPHATO WA R	MOPHATO 1	MOPHATO 2	MOPHATO 3
3.3 **Dipopego tsa tekanyopedi** **(2-D)**		**Tatelano ya dipopego** Lemoga le go neelana ka leina la popego tekanyopedi (2-D) • didiko • dikhutlotharo • dikhutlonne **Diponagalo tsa dipopego** Tlhalosa, tlhaola le go bapisa dipopego tsa tekanotlhakorepedi (2-D) go ya ka: • bogolo • mmala • matlhakore a a tlhamaletseng • matlhakore a a potokwe	**Tatelano ya dipopego** Lemoga le go neelana ka leina la popego tekanyopedi (2-D) • didiko • dikhutlotharo • dikhutlonne • dikhutlonnetsepa **Diponagalo tsa dipopego** Tlhalosa, tlhaola le go bapisa dipopego tsa tekanytlhakoreopedi (2-D) go ya ka: • bogolo • mmala • matlhakore a a tlhamaletseng • matlhakore a a potokwe	**Tatelano ya dipopego** Lemoga le go neelana ka leina la popego tekanyopedi (2-D) • didiko • dikhutlo-tharo • dikhutlo-nne • dikhutlonne-tsepa **Diponagalo tsa dipopego** Tlhalosa, tlhaola le go bapisa dipopego tsa tekanotlhakorepedi (2-D) go ya ka: • bogolo • mmala • matlhakore a a tlhamaletseng • matlhakore a potokwe **Thala dipopego** • didiko • dikhutlo-tharo • dikhutlo-nne • dikhutlonne-tsepa
3.4 **Tekano**	**Tekano** • Lemoga kgaogano gabedi mo mmeleng wa gago.	**Tekano** • Lemoga kgaogano gabedi mo mmeleng wa gago. • Lemoga le go thala mola wa bogare mo dipopegong tsa tekanotlhakorepedi (2-D) le dipopego tse e seng tsa Jeometeri	**Tekano** • Lemoga le go thala mola wa bogare mo dipopegong tsa tekanotlhakorepedi (2-D) le dipopego tse e seng tsa Jeometeri	**Tekano** • Lemoga le go thala mola wa bogare mo dipopegong tsa tekanotlhakorepedi (2-D) le dipopego tse e seng tsa Jeometeri • Lemoga mola wa bogare wa tekano mo pampiring e e menilweng e e bonagalang

THADISO YA KGATO YA MOTHEO

4. TEKANYO

Kgatelopele mo tekanyong

- Kgatelopele e kgolo mo go lekanyetseng go kgabaganya mephato e fitlhelelwa ka kitsiso ya:
  - Mekgwa e meswa ya tekanyo
  - Didiriswa tse dintshwa tsa tekanyo, o simolola ka didiriswa tse di sa tlhomamang o ya kwa go tse di tlhomameng mo mophatong wa 2 le 3;
  - Diyuniti tse dintshwa tsa tekanyo, bogolo jang mo mephatong ya 2 le 3
- Go balela le go rarabolola dipalo ka go tekanyetsa di tshwanetse go tsaya tiro e e setseng e dirilwe tsia.

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
4.1 **Nako**	**Tsamao ya nako** Tlotla ka go tsamaya ga nako • Bua ka ga dilo tse di diragalang motshegare le bosigo. • Barutwana ba rulaganya ka ditiragalo tse di diragalang motshegare tatelano • Ba rulaganya ditiragalo tsa ka gale tse di diragalang mo matshelong a bona.	**Tsamao ya nako** Tlotla ka ga go tsamaya ga nako • Ba rulaganya ditiragalo tsa ka gale tse di diragalang mo matshelong a bona. • Bapisa boleele jwa nako o dirisa puo, sekao, leele, khutshwane, bonako, bonya. • Rulaganya ditiragalo o dirisa puo, jaaka'maabane','gompieno' le 'ka moso'.		

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
4.1 **Nako**		**Bua ka ga nako** • Dirisa puo go tlhalosa fa sengwe se diragala, sekao, mosong, thapama, bosigo, phakela, lotlatlana • Neela matsatsi a beke le dikgwedi tsa ngwaga ka tatelano. • Kwala matsatsi a botsala mo khalentareng.	**Bua ka ga nako** • Neela matsatsi a beke le dikgwedi tsa ngwaga ka tatelano. • Kwala matsatsi a botsalo, meletlo ya tsa sedumedi, matsatsi a boikhutso, ditiragalo tsa hisitori, le ditiragalo tsa thuto mo khalentareng. • Dirisa diura go bua ka nako ya diura di le12, halofo ya diura le kgweditharo ya diura. **Balela boleele jwa nako le go tsamaya ga nako** • Dirisa khalentara go balela le go tlhalosa boleele jwa nako go ya ka: - Matsatsi - Dibeke • Dirisa tshupanako go balela boleele jwa nako go ya ka: - Diura - Halofo ya ura	**Bua ka ga nako** • Buisa letlha mo alemanakeng. • Kwala matsatsi a botsalo , meletlo ya sedumedi,matsatsi a boikhutso, matsatsi a di tiragalo tsa histori le ditiragalo tsa thuto mo khalentareng • Bua nako ya diura di le 12 ka: • Diura • Halofo ya diura • Kgwedithario ya ura • Metsotso • Mo tshupanako ya manaka le mo go ya panya-panya le selefouno. **Balela boleele jwa le go tsamaya ga nako** • Dirisa khalentara go balela le go tlhalosa boleele jwa nako mo: - Matsatsi - Dibeke - Dikgwedi • Fetolela magareng ga matsatsi le dibeke • Fetolela magareng ga dibeke le dikgwedi. • Dirisa tshupanako go bua ka boleele jwa nako ka: - Diura - Halofo ya diura - Kgwedithario ya diura

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
4.2 **Boleele**	**Go lekanyetsa go go sa tlhomamang** • Bapisa le go rulaganya boleele, bogodimo,kgotsa bophara,jwa dilo tse pedi kgotsa go feta ka go di bapisa.Dirisa puo go bua ka ga papiso sekao: telele, khutshwane, telele thata, sephara thata	**Go lekanyetsa go go sa tlhomamang** • Bapisa le gorulaganya boleele, bogodimo,kgotsa bophara,jwa dilo tse pedi kgotsa go feta ka go di bapisa.Dirisa puo go bua ka ga papiiso sekao: telele, khutshwane, telele thata, sephara thata • Phopholetsa, lekanya, bapisa, rulaganya le go kwala boleele o dirisa selekanyo se se sa tlhomamang sekao: boalo jwa letsogo,boleele jwa phensele le dibadisi. • Tlhalosa boleele jwa didiriswa ka go bala le go kwala boleele o dirisa ditekanyo tse di sa tlhomamang.	**Go lekanyetsa go go sa tlhomamang** • Phopholetsa, lekanya, bapisa, rulaganya le go kwala boleele o dirisa selekanyo se se sa tlhomamang sekao: boalo jwa lebogo,boleele jwa phensele le dibadisi. • Tlhalosa boleele jwa didiriswa ka go bala le go kwala boleele o dirisa ditekanyo tse di sa tlhomamang **Itsise ka ga tekanyo e e tlhomameng** • Phopholetsa, lekanya, bapisa, rulaganya le go kwala boleele o dirisa selekanyo sa mitara (gongwe o ka dirisa dithupana tse di arogantsweng ka dimetara kgotsa mogala wa boleele jwa dimetara) jaaka selekanyetsi se se tlhomameng sa boleele.	**Go lekanyetsa go go sa tlhomamang** • Phopholetsa, lekanya, bapisa, rulaganya le go kwala boleele o dirisa selekanyo se se sa tlhomamang sekao: boalo jwa lebogo,boleele jwa phensele le di badisi. • Tlhalosa boleele jwa didiriswa ka go bala le go kwala boleele o tlhalosa gore boleele jwa tsona ke bokae fa o dirisa ditsela tse di sa tlhomamang **Itsise ka ga tekanyo e e tlhomameng** • Phopholetsa, lekanya, bapisa, rulaganya le go kwala boleele o dirisa dimetara (kgotsa dithupana tse di arogantsweng ka dimetara kgotsa mogala wa boleele jwa dimetara) jaaka selekanyetsi se se tlhomameng sa boleele. • Fopholetsa le go lekanya boleele o dirisa sediriswa se se thalang mola se se nang le disentimetara (Ga go tlhokagale gore dimetara di fetolelwe mo disentimetareng)
4.3 **Boima / Bokete**	**Go lekanyetsa go go sa tlhomamang** • Lekanya le go rulaganya bokete jwa didiriswa tse pedi kgotsa go feta ka go di tshwara kgotsa go dirisa sekale.	**Go lekanyetsa go go sa tlhomamang** • Fopholetsa, lekanya, bapisa le go rulaganya o kwala bokete o dirisa sekale le dikale tse e seng tsa nnete jaaka ditene le diboloko.	**Go lekanyetsa go go sa tlhomamang** • Fopholetsa, lekanyetsa, bapisa le go rulaganya o kwala bokete o dirisa sekale le dikale tse e seng tsa nnete jaaka ditene le diboloko.	**Go lekanyetsa go go sa tlhomamang** • Fopholetsa, lekanya, bapisa le go rulaganya o kwala bokete o dirisa sekale le dikale tse eseng tsa nnete jaaka ditene le diboloko.

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
4.3 **Boima / Bokete**	• Dirisa puo go bua ka ga papiso sekao bofefo, boima,bofefo thata, boima thata	• Tlhalosa bokete jwa didiriswa ka go bala le go kwala bokete o dirisa ditsela tse di sa tlhomamang • Dirisa puo go bua ka papiso ya boima, boima thata,bofefo, boima thata	• Tlhalosa bokete jwa didiriswa ka go simolola ka go bala o kwala bokete/ boima o dirisa diyuniti tse di sa tlhomamang. • Dirisa puo go bua ka ga papiso, sekao, bofefo, boima, bofefo thata, boima thata. **Itsise ka ga go lekanyetsa go go tlhomameng** • Bapisa, rulaganaya le go kwala bokete jwa dilo tse di rekisiwang tse di nang le bokete/boima jo bo kwadilweng ka dikilogerama, sekao, dikilogerama tse 2 tsa raese le kilogerama e 1 ya folouru. • Lekanyetsa bokete jwa gago ka go dirisa sekale sa ntlwana ya go tlhapela se se nang le dikilogerama	• Tlhalosa bokete jwa didiriswa ka go bala o kwala bokete ka diyuniti tse di sa tlhomamang. • Dirisa puo go bua ka papiso ya sekao bofefo,boima, bofefothata le boimathata **Itsise ka ga go lekanyetsa go go tlhomameng** • Bapisa, rulaganya le go kwala bokete jwa dilo tse di rekisiwang jo bokete jwa tsona bo leng ka diyuniti tsa bokete jaaka kilogerama sekao: Dikilogorama di le 2 tsa mmopo le kilogerama e le 1 ya reisi. Dikerama sekao dikerama tse 500 tsa letswai • Lekanya bokete jwa gago ka dikilogorama, dirisa sekale sa phaposi ya go tlhapela. • (Ga go fetolelwe magareng ga dikilogerama le dikerama tse di tlhokagalang)
4.4 **Mothamo / Bolumu**	**Go lekanya go go sa tlhomamang** • Bapisa le go rulaganya selekanyo (mothamo) sa metsi mo teng ga dikgamelo tse pedi di bapisitswe. Barutwana ba netefatsa ka go tshela metsi mo setshelong sa boraro fa go tlhokagala. • Bapisa le go rulaganya selekanyo (bolumu)sa metsi se dikgamelo tse pedi di ka tladiwang ka sona. • Dirisa puo go bua ka ga papiso sekao: e ntsi go, e nnye go, e tletse, e lolea.	**Go lekanya go go sa tlhomamang** • Bapisa le go rulaganya selekanyo (mothamo) sa metsi mo teng ga dikgamelo tse pedi di bapisitswe. Barutwana ba netefatsa ka go tshela metsi mo kgamelong ya boraro fa go tlhokagala. • Bapisa le go rulaganya selekanyo (bolumu) sa metsi se dikgamelo tse pedi di ka tladiwang ka sona. • Dirisa puo go bapisa jaaka: ntsi thata, nnye go, tletse le lolea. • Fopholetsa, lekanya, bapisa, rulaganya le go kwala mothamo wa dikgamelo o dirisa diyuniti tse di sa tlhomamang, sekao dikopi le maswana.	**Go lekanya go go sa tlhomamang** • Fopholetsa, lekanya, bapisa le go kwala selekanyo sa mothamo wa dikgamelo (go raya gore selekanyo se kgamelo e ka se tsayang fa e tladitswe) o dirisa dilekanyetso tse di sa tlhomamang sekao maswana le dikopi.	**Go lekanyetsa go go sa tlhomamang** • Fopholetsa, lekanya, bapisa le go kwala selekanyo sa mothamo wa dikgamelo (go raya gore selekanyo se kgamelo e ka se tsayang fa e tladitswe)o dirisa dilekanyetso tse di sa tlhomamang sekao maswana le dikopi.

SETLHOGO	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
4.4 **Mothamo / Bolumu**		• Tlhalosa mothamo wa dikgamelo ka go bala le go kwala gore go tlatsa kgamelo go tsaya diyuniti di le kae tse di sa tlhomamang tsa dikopi tse nne.	• Tlhalosa mothamo wa dikgamelo ka go bala le go kwala gore ke diyuniti tse di sa tlhomamang tse kae tse o ka tlatsang kgamelo ka tsone sekao botlolo e na le mothamo wa dikopi tse nne. **O itsese ka ga ditsela tse di tlhomameng** • Fopholetsa, lekanya, bapisa, rulaganya le go kwala mothamo wa dikgamelo tse di lekanyediwang ka diletara. • Bapisa, rulaganya le go kwala mothamo wa didiriswa tse di phuthetsweng go kwadilwe diletara mo go tsone sekao diletara tse 2 tsa mashi, le litara e le 1 ya senotsididi, diletara tse 5 tsa pente	• Tlhalosa mothamo wa dikgamelo ka go bala le go kwala gore ke diyuniti tse di sa tlhomamang tse kae tse o ka tlatsang kgamelo ka tsona sekao botlolo e na le mothamo wa dikopi tse nne. **O itsese barutwana ka go dirisa ditsela tse di tlhomameng** • Fopholetsa, lekanya, bapisa, rulaganya le go kwala mothamo wa didiriswa ka go dirisa ditekanyo tsa diletara, halofo ya litara le kwatara ya letara. • Bapisa, rulaganya le go kwala mothamo wa didiriswa tse di phuthetsweng go kwadilwe diletara mo go tsone sekao diletara tse 2 tsa maŝwi, le letara e le 1 ya senotsididi, diletara di le 5 tsa pente kgotsa di kwadilwe ka dimililetara sekao dimililetara di le 500 tsa maŝwi, dimililetara di le 340 tsa senotsididi, dimililetara di le 750 tsa oli. • Itse gore kopi e e tlwaelegileng e e tlhomameng ke dimililetara di le 250. • Itse gore leswana le le nnye le le tlwaelegileng le le tlhomameng ke dimililetara di le 5 (Ga go tlhokege phetolelo ya dimililetara le diletara)
4.5 **Boleele jwa molelwane wa selo(perimeta) le boatlhamo(Area)**				**Boleele jwa molelwane wa selo (*Perimeta*)** Batlisisa sekgala se go dikologa tekanyotlhakorepopegopedi (2-D) le didiriswa tsa tekanyotlhakore tharo (3-D) ka go dirisa papiso e e lebaganeng kgotsa diyuniti tse di sa tlhomamang. **Boatlhamo (*Area*)** Batlisisa boatlhamo o dirisa dithaele.

THADISO YA KGATO YA MOTHEO

5. GO DIRA KA TSHEDIMOSETSO YA DIPALO

Kgatelopele mo go direng ka dipalo tsa tshedimosetso

- Kgatelopele e kgolo mo go lekanyetseng tsamaiso ya tshedimosetso go kgabaganya mephato e fitlhelelwa ka kitsiso ya:
  - tswelela mo go direng ka didiriswa go ya go dira ka tshedimosetso le
  - dira ka dipopego tse dintšhwa tse di dirang ka tshwantshiso ya tshedimosetso
- Barutwana ba tshwanetse go go dira ka tshedimosetso e e feleletseng bonnye ngwaga otlhe-se se akaretsa go kgobokanya le go rulaganya tshedimosetso, go tshwantsha tshedimosetso, go utolola, ranola le go bega tshedimosetso
- Dingwe tsa dintlha tse di fa godimo tsa go dira ka dipalo tsa tshedimosetso di ka dirwa jaaka ditirwana tse di kgethegileng

DITENG	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
5.1 **Kgobokanya le go tlhaola didiriswa**	**Kgobokanya le go rulaganya didiriswa** kgobokanya le go tlhaola didiriswa tse di kgonngwang letsatsi le letsatsi	**Kgobokanya le go rulaganya didiriswa tse di kgonngwang.** Kgobokanya le go tlhaola didiriswa tse di kgonngwang letsatsi le letsatsi		
5.2 **Bapisa Tshwantshisa didiriswa tse di tlhaotsweng di bo di kgobokanngwa**	**Tshwantshisa didiriswa tse di tlhaotsweng di bo di kgobokanngwa** Tlhaola setshwantsho sa didiriswa tse di kgobokantsweng	**Tshwantshisa didiriswa tse di tlhaotsweng di bo di kgobokanngwa** Tlhaola setshwantsho sa didiriswa tse di kgobokantsweng		
5.3 **Buisana le go bega ka ga didiriswa tse di tlhaotsweng di kgobokantswe**	**Buisana le go bega ka ga didiriswa tse di tlhaotsweng di kgobokantswe** • Araba dipotso ka: - Gore kgobokanyo e tlhaotswe jang - Mothalo o o bontshang kgobokanyo	**Buisana le go bega ka ga didiriswa tse di tlhaotsweng di kgobokantswe** • Neela mabaka a gore kgobokanyo e tlhaotswe jang • Araba dipotso ka ga: - Tlhaolo e dirilwe jang (dikgato/ thulaganyo) - Didiriswa tse di tlhaotsweng di lebega jang(kungo) • Tlhaloso ya kgobokanyo /mothalo • Tlhalosa ya gore kgobokanyo e tlhaotswe jang		

DITENG	MOPHATO R	MOPHATO 1	MOPHATO 2	MOPHATO 3
5.4 **Kgobokanya le go rulaganya dipalo tsa tshedimosetso**		Kgobokanya le go rulaganya dipalo tsa tshedimosetso. .Kgobokanya dipalo tshedimosetso ka phaposi kgotsa sekolo go araba dipotso tse di bodiwang ke morutabana	Kgobokanya le go rulaganya dipalo tsa tshedimosetso Kgobokanya dipalo tshedimosetso ka phaposi kgotsa sekolo go araba dipotso tse di bodiwang ke morutabana	Kgobokanya le go rulaganya dipalo tsa tshedimosetso Kgobokanya dipalo tshedimosetso ka phaposi kgotsa sekolo go araba dipotso tse di bodiwang ke morutabana Rulaganya dipalo tshedimosetso tse di neetsweng ke morutabana kgotsa di le mo bukeng ya tirokwakelelo Rulaganya dipalo tshedimosetso go ya ka Mananeo Maduo a lekalekanang Lenaaneng
5.5 **Emela tshedimosetso ya dipalo**		**Emela tshedimosetso ya dipalo.** • Emela tshedimosetso mo kerafong ya setshwantsho. • Kerafo e e lekanyeditsweng go nyalana ka bongwe- ka -bongwe (1 to 1)	**Emela tshedimosetso ya dipalo.** • Emela tshedimosetso mo kerafong ya setshwantsho. • Kerafo e e lekanyeditsweng go nyalana ka bongwe- ka -bongwe	**Emela tshedimosetso ya dipalo.** • Rulaganya tshedimosetso mo: - Tshwantshisa tshedimosetso mo - Kerafong e e lekanyeditsweng go nyalana ka bongwe- ka- bongweU - Molanoko
5.6 **Utolola le go ranola dipalo tsa tshedimosetso**		**Utolola le go ranola dipalo tsa tshedimosetso** Araba dipotso ka dipalo tshedimosetso mo kerafong ya setshwantsho • se se lekanyeditsweng go nyalana ka bongwe- ka -bongwe	**Utolola le go ranola dipalo tsa tshedimosetso** Araba dipotso ka tshedimosetso ya dipalo mo setshwantshong • se se lekanyeditsweng go nyalana ka bongwe- ka –bongwe.	**Utolola le go ranola dipalo tsa tshedimosetso** Araba dipotso ka tshedimosetso ya dipalo • setshwantsho se se lekanyeditsweng go nyalana ka bongwe- ka- bongwe • Molanoko

3.3 TLHALOSO YA DITENG

Mo karolong e ya tlhaloso ya diteng, barutabana ba neetswe:

- thadiso ya kgweditharo ya Mophato R-3
- tatelano ya ditlhogo e e tsitshintsweng go ya ka dikgweditharo: ga se dintlha tsotlhe tsa ditlhogo tse di rutiwang mo kgweditharong, dingwe tsa dintlha tsa ditlhogo tse di rileng, di tlhoka go rutiwa pele ga dintlha tsa ditlhogo tseo;
- Nako e e tshitshintsweng ya ditlhogo mo tsamaong ya ngwaga. Diteng le ditlhogo dingwe tsa dirutwa di tlhoka nako e ntsi go feta tse dingwe,ditlhogo tse dingwe, le
- Tlhaloso ya diteng le dikaelo tsa go ruta mmgogo le dikao, di neetswe mo go maleba.

Diteng tsa serutwa sengwe le sengwe di kgaogantswe go ya ka ditlhogo. Diteng tsa dirutwa tsotlhe di tshwanetse go rutiwa kgweditharo nngwe le nngwe. Tatelano ya ditlhogo go ya ka dikgweditharo di naya kakanyo ya kgaoganyo ya ditlhogo tse di tlhokang go rutwa mo ngwageng le tse di tlhokang go boelediwa mo ngwageng. Ga go botlhokwa go ruta ditlhogo tsotlhe fa o ruta Boalo le Popego (Jeometeri), Tekanyo le go dira ka tshedimosetso ya Dipaloalo mo kgweditharong nngwe le nngwe. Le gale, ditlhogo tsotlhe di tshwanetse go rutiwa mo tsamaong ya ngwaga

Mo kgaolong ya bobedi (temana 2.6) boleng jwa diteng tsa serutwa bo neetswe. Fa se, se kopanngwa le diura tse di rebotsweng mo ngwageng o kgona go tlhakanya diura tsa diteng tsa serutwa sengwe le sengwe.

Barutabana ba ka nna ba itlhophela go rulaganya le gobaya nako e morutabana a tshwanetseng go e dirisetsa go ruta serutwa ka mokgwa o o farologaneng le o o atlenegisitsweng mo kgaolong e. Barutabana ba ka nna ba fetola nako e e thitshintsweng ya ditlhogo tse di neetsweng go le gonnye. Le gale, ba tshwanetse go tlhokomela boleng le diura tse di abetsweng diteng tsa serutwa mo Kgatong ya Motheo wa serutwa sa Dipalo

- **Mophato R-** Dipalo di mo sebopegong sa tshimologo ya dipalo, ka jalo ga di a kgaoganngwa ka dinako tsa dithuto. Morutabana wa mophato R o tshwanetse go tsenyeletsa dipalo mo ditirwaneng tsa letsatsi le letsatsi tsa morutwana le fa nako e tshwanetse go bewa kwa thoko mo tsamaong ya letsatsi mo morutabana a tsepamang fela mo tirwaneng ya dipalo, e seng jalo, barutwana ga ba kitla ba nna le temogo le kgodiso ya dikgopolo le dikgono tsa dipalo tse di lebeletsweng.
- Nako ya Mephato ya 1-3 e abilwe ka tsela e e latelang:
  - **Diura di le supa di tshwanetse go dirisediwa go ruta Dipalo mo bekeng** (dibeke tse 10 x dikgweditharo tse 4 x diura di le 7=Diura di le 280 ka ngwaga)
  - Thuto nngwe le nngwe ya Dipalo ya mophato 1 go fitlha 3 e tshwanetse go rutwa mo ureng e le nngwe le metsotso e le 24 ka letsatsi.
  - Se se raya gore go na le dikgweditharo di le nne tsa dibeke di le 10 ka matsatsi a le matlhano letsatsi le letsatsi (go simologa ka Mosupologo go fitlha ka labotlhano) mo dithutong tsa beke.
  - Mo tshimologong ya kgweditharo nngwe le nngwe, go tshwanetse ga nna le beke eo mo go yona go kaelwang le go tiisiwa tiro e e fetileng, ka gore bana ba na le go lebale ditengtse dintsii ka nako ya matsatsi a boikhutso le go tswa mo tlwaelong ya go ya kwa sekolong. Letlelela beke e le nngwe mo bokhutlong jwa kgweditharo go tiisa kitso ka ga dikgopolo. Se se go naya 8 x 4 x 5 = dithuto tse 160

3.4 TATELANO LE NAKO E E TLHAOLETSWENG DITENG

Mophato wa R-3 o neetswe manaane a a latelang a kgweditharo nngwe le nngwe:

- Nako e e tlhaoletsweng ditlhogo tsa ngwaga otlhe (e bontsha kgaoganyo ya ditlhogo mo kgabaganyong ya dikgweditharo le go atlenegisa nako e e tshwanetseng go dirisiwa mo setlhogong sengwe le sengwe sa diteng tsa serutwa)
- Tatelano ya ditlhogo mo ngwageng (e bontsha gore ditlhogo di abilwe jang mo kgweditharong le tsweletso ya dikgopolo le dikgono mo kgabaganyong ya dikgweditharo)
- Dintlha tse di tlhalosang di neetswe go ya ka setlhogo sengwe le sengwe- manaane a, neela tlhaloso ya diteng le dikaelo tsa setlhogo sengwe le sengwe jaaka se latedisitswe mo kgabaganyong ya dikgweditharo

Thulaganyetsothuto – kabo ya nako mo kgweditharong go ya ka setlhogo

Thuto ya dipalo ke setlhogo se se botlhokwa thata mo Kgatong ya thuto ya Motheo ya serutwa sa Dipalo. Mo nakong e ntsi, beke nngwe le nngwe, kgweditharo le mo ngwageng, e tsepamedisitswe mo thutong ya Dipalo, Matshwao le Dikgolagano. Mo selekanong, dithuto tse tharo kgotsa go feta mo bekeng e le nngwe di tshwanetse go tsepamisiwa mo Dipalong, Matshwao le Dikgolagano. Nako e nngwe, e e salang e kgaoganngwe magareng ga dirutwa tse dingwe.

Boalo le Popego le Tekanyo di tlhoka nako e ntsi le kelotlhoko go feta dipalo tsa go dira ka Tshedimosetso le Dipaterone, ditiro le Alejebera. Manaane a a fa tlase a supa gore ke dithuto di le kae tse di ka abelwang diteng tsa serutwa sengwe le sengwe le setlhogo sa mophato mogwe le mongwe mo Dipateroneng,Ditirisong le Alejebera, Boalo le Popego, Tekanyo le dipalo tse di dirang ka tshedimosetso.

Kabelano **ya diteng tsa serutwa le ditlhogo mo dithutong mo mophatong wa R**

Popego ya dipalo mo mophatong wa R, ke ya dipalo tsa tshimologo ka ga moo nako e e latelang e e abilweng e tshitsinyeditswe tsepamiso mo thutong ya dipalo ga mmogo le ditirwana tse di sa tlhomamang. Se,se netefatsa kakaretso e e feletseng mo diteng tsa serutwa tse di neetsweng. Ditirwana tsa dipalo tsa tshimologo e ka nna go bala palo ya di dijelo le dibikiri tse o ba nayang tsone fa ba ja, go bala metshameko e e tshamikiwang kwa ntle, metshameko e e tshamekiwang mo teng ga phaposi jaaka ditomino le dijikiso phasele jalo jalo. Morutabana o tshwanetse go rulaganya ditirwana tsotlhe go ya ka ditlhokego tsa barutwana le didirswa tse di leng teng mo phaposing.

Boalo le popego ke karolo e e botlhokwa ya kgolo ya morutwana yo monnye mo dipalong, e tshwanetse go anamisiwa mo bekeng, ka ditiragalo tse dingwe tse di tsepamisitsweng ka fa tlase ga kaelo ya morutabana le ditšhono tsa go aga, mmu le motshameko wa metsi le barutwana

Tekanyo e tshwanetse ga akarediwa mo ditirwaneng tsa go bala, sekao go fopholetsa le go bala o lekanya sekgala ka diatla, maoto le dikgato

Go tshwaya rejisitara le tšhate ya maemo a bosa go naya morutabana tšhono ya **Go dira ka Dipalo tsa tshedimosetso**

Lenaane 3.1: Kabo ya nako go ya ka diteng tsa beke

Diteng tsa serutwa	Ditlhogo	Nako e e tsitshintsweng
Dipalo, Matshwao le Dikgolagano	Go bala Temogo ya dipalo Supa le go tlhalosa dipalotlalo Kgopolopalo Go rarabolola dipalo	**Metsotso e le 120**
Dipaterone, Ditiriso le Alejebera	Kopolola, atolosa le go aga dipaterone tsa bone	**Metsotso e le 80**
Boalo le Popego (Jeometeri)	Lemoga, tlhopha le go neela maina a tekanyo ya popegopedi (2-D) le ditshwantsho Tekanyo ya popego Aga dipopego tekanyo ya tlhakoretharo (3-D) o dirisa didiriswa tse di kgonngwang. Dikamano tsa boalo Dikaelo	**Metsotso e le 80**
Tekanyo	Nako Boleele Boima Mothamo	**Metsotso e le 80**
Go dira ka dipalo tsa tshedimosetso	Kgobokanya, tlhaola, tshwantsha, bala le go emela tshedimosetso	**Metsotso e le 60**
Palogotlhe		**Metsotso e le 420** **Diura di le 7 ka beke**

- **Kabo ya diteng tsa serutwa le ditlhogo tsa dithuto tsa Mephato 1 go ya go 3**

Palogare ya dithuto di le tharo mo bekeng (magareng ga diura di le 4 le $4\frac{1}{2}$) e dirisetswa go ruta Dipalo, Matshwao le Dikgolagano mo Mephatong 1, 2 le 3. Dithuto tse pedi tse di salang (ke gore tse di mo magareng ga diura di le $2\frac{1}{2}$ le 3) di kgaoganngwe fa gare ga ditlhogo tse dingwe tsa diteng tsa dirutwa go ya ka mokgwa o o tsitshintsweng fa tlase.

Lenaneo 3.2: Palo ya dithuto tse di tsitshintsweng tsa diteng tsa serutwa tsa kgweditharo tsa Mophato 1

DITENG TSA SERUTWA	SETLHOGO	NOMERE YA DITHUTO				
		Kgwed-itharo 1	Kgwed-itharo 2	Kgwed-itharo 3	Kgwed-itharo 4	Gotlhe
Dipalo, matshwao le dikgolagano	Ditlhogo tsotlhe tsa Dipalo, matshwao le dikgolagano	22	30	28	25	**105**
Dipaterone mediro le Alejebera	Dipaterone tsa Dipalo	3	3	3	3	**12**
	Dipaterone tsa tekano	1	1	1	1	**4**
Boalo le popego (Tekano)	Tekatekanyo ya dipopegotlhakorepedi (2-D)		3		3	**6**
	Tekanyo ya popegotlhakoretharo (3 D)	3		2	1	**6**
	Maemo, kitsiso, le dikakanyo	2			1	**3**
	Tekatno			1	1	**2**
Tekano	Nako	2				**2**
	Boleele	2		2		**4**
	Boima	2			2	**4**
	Mothamo/bolumu	1	2		1	**4**
Go dira ka Dipalo tsa tshedimosetso	Kgobokanya, rulaganya le go lokolola didiriswa	2	1			**3**
	Sediko sotlhe sa tshedimosetso			3		**3**
	Dikarolo tsa sediko sa tshedimosetso				2	**2**
Palo yotlhe ya dithuto		**40**	**40**	**40**	**40**	**160**

Lenaneo 3.3: Palo ya dithuto tse di tsitshintsweng tsa diteng tsa serutwa tsa kgweditharo tsa Mophato 2

DITENG TSA SERUTWA	SETLHOGO	NOMERE YA DITHUTISO				
		Kgwed-itharo 1	Kgwed-itharo 2	Kgwed-itharo 3	Kgwed-itharo 4	Gotlhe
Dipalo, matshwao le dikgolagano	Ditlhogo tsotlhe tsa Dipalo, matshwao le dikgolagano	24	25	24	26	**99**
Dipaterone, ditiriso le Alejebera	Dipaterone tsa Dipalo	3	3	3	3	**12**
	Dipaterone tsa Tekanyo	1	1	1	1	**4**
Boalo le popego (Jeometeri)	Dipopego tsa tekanyotlhakoreopedi (2-D)		3		3	**6**
	Dipopego tsa tekanyotlhakoretharo (3 D	3		2	1	**6**
	Maemo, kitsiso le dikakanyo		2	1		**3**
	tekanyo		1		1	**2**
Tekanyo	Nako	3	1	3	1	**8**
	Boleele	3			1	**4**
	Boima		3		1	**4**
	Mothamo/bolumu			3	1	**4**
	Perimeta					
	Area					
Go dira ka Dipalo tsa tshedimosetso	Sediko sa tshedimosetso yotlhe	3		3		**6**
	Dikarolo tsa sediko sa tshedimosetso		1		1	**2**
Palo yotlhe ya dithutio			**40**	**40**	**40**	**160**

Papetlana 3.4: Palo ya dithuto tse di tsitshintsweng tsa diteng tsa serutwa tsa kgweditharo tsa Mophato 3

DITENG TSA SERUTWA	SETLHOGO	NOMERE YA DITHUTISO				
		Kgwed-itharo 1	Kgwed-itharo 2	Kgwed-itharo 3	Kgwed-itharo 4	Gotlhe
Dipalo, matshwao le dikgolagano	Ditlhogo tsotlhe tsa Dipalo, matshwao le dikgolagano	26	22	19	27	**94**
Dipaterone, mediro le Alejebera	Popegopalo	3	3	3	3	**12**
	Dipaterone tsa tekanyo	1	1	1	1	**4**
Boalo le popego (JEOMETERI)	Dipopego tekanyotlhakore pedi (2-D)	2		2		**4**
	Dipopego tekanyotlhakore tharo (3 D		3	3	1	**7**
	Maemo, kitsiso le dikakanyo		2	3		**5**
	Tekano		2		1	**3**
Tekanyo	Nako	3	2	3	2	**10**
	Boleele		2	2		**4**
	Boima		2		1	**3**
	Mothamo/bolumu	2			1	**3**
	Perimeta			1		**1**
	Area				2	**2**
Go dira ka dipalo tsa tshedimosetso	Sediko sa tshedimosetso yotlhe	3		3		**6**
	Dikarolo tsa sediko sa tshedimosetso		1		1	**2**
Palo yotlhe ya dithuto		**40**	**40**	**40**	**40**	**160**

- **Thadiso ya Mophato R ya kgweditharo**

THADISO YA DIPALO YA MOPHATO R 1. DIPALO, MATSHWAO LE DIKGOLAGANO				
GO BALA				
DITENG	**KGWEDITHARO 1**	**KGWEDITHARO 2**	**KGWEDITHARO 3**	**KGWEDITHARO 4**
1.1 **Bala didiriswa** (Fopholetsa le go bala didiriswa go aga palokgopolo)	**Tlhatlhamano ya palo 1-5** • Nyalano ya bongwe-ka-bongwe Itsise ka ga karata ya mothusi le mokgwa o dilapolosi di neelwang ka tatelano ka teng • Bala ka bongwe - didiriswa tse di kgonngwang - dikarolo tsa mmele - gol opa diatla - Iba kiba-kiba/go gataka maoto ka thata - go palama mapalamo • Poeletso ya go bala dipalo - diraeme tsa dipalo le dipina	**Tlhatlhamano ya palo: 1-7** • Nyalano ya bongwe-ka-bongwe Tiisa tiriso ya karata ya mothusi letsatsi le letsatsi • Bala ka bongwe - didiriswa tse di kgonngwang - dikarolo tsa mmele - go opa diatla - go kiba-kiba/go gataka maoto ka thata - go palama mapalamo • Poeletso ya go bala dipalo - diraeme tsa dipalo le dipina • Opa diatla gantsi / go le gonnye	**Tlhatlhamano ya palo: 1 to 10** • Nyalano ya bongwe-ka-bongwe Tiisa tiriso ya karata ya mothusi letsatsi le letsatsi • Bala ka bongwe - didiriswa tse di kgonngwang - dikarolo tsa mmele - gol opa diatla - Iba kiba-kiba/go gataka maoto ka thata - go palama mapalamo • Poeletso ya go bala dipalo - diraeme tsa dipalo le dipina • Opa diatla gantsi / gannye Ke palo efe ya go opa diatla e ntsi/e nnye	**Tlhatlhamano ya palo: 0 to 10** • Nyalano ya bongwe-ka-bongwe Tiisa tiriso ya karata ya mothusi letsatsi le letsatsi • Bala ka bongwe - didiriswa tse di kgonngwang - dikarolo tsa mmele - gol opa diatla - Kiba-kiba/go gataka maoto ka thata - go palama mapalamo • Poeletso ya go bala dipalo - diraeme tsa dipalo le dipina le dipina • Opa diatla gantsi / gannye Ke palo efe ya go opa diatla e ntsi/e nnye
1.2 **Bala go ya pele le kwa morago**	**Tlhatlhamano ya palo**: 1 Go ipalela o dirisa diraeme tsa dipalo le dipina, dibadisi, didiriswa tsa tekanyotlhakoretharo (3-D), go bala o dirisa dikarolo tsa mmele **Bala ka:** • bongwe	**Tlhatlhamano ya palo**: 1 - 4 Go ipalela o dirisa diraeme tsa dipalo le dipina, dibadisi, didiriswa tsa tekanyotlhakoretharo (3-D), go bala o dirisa dikarolo tsa mmele **Bala ka:** • bongwe	**Tlhatlhamano ya palo**: 1 - 7 Go ipalela o dirisa diraeme tsa dipalo le dipina, dibadisi, didiriswa tsa tekanyotlhakoretharo (3-D), go bala o dirisa dikarolo tsa mmele le dipalo ya llere **Bala ka:** • bongwe	**Tlhatlhamano ya palo**: 0 - 10 Go ipalela o dirisa diraeme tsa dipalo le dipina, dibadisi, didiriswa tsa tekanyotlhakoretharo (3-D), go bala o dirisa dikarolo tsa mmele **Bala ka:** • bongwe • bobedi

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
1.3 **Letshwaopalo le leinapalo** (Lemoga le go supa matshwaopalo le mainapalo)	**Tlhatlhamano ya palo:** • Matshwaopalo: **1** • Mainapalo: **nngwe** - Motshameko wa go dirisa mmele (go itemogela ka mmele) - Didiriswa tse di kgonngwang jaaka didiriswa tsa tekanotlhakoretharo (3-D) tse di akaretsang nngwe - Didiriswa tse di kgonngwang go le gonnye ka dikarata tsa ditshwantsho tse di akaretsang nngwe - Didiriswa tse di kgonngwang go le gonnye tse di nang le dikarata tsa marontho a a akaretsang nngwe • Tiisa kitso e a e ungwileng e e akaretsang dipalo nngwe	**Tlhatlhamano ya palo:** • Matshwaopalo: **2 - 4** • Mainapalo: **pedi, tharo, nne.** - Motshameko wa go dirisa mmele (go itemogela ka mmele) - Didiriswa tse di kgonngwang jaaka didiriswa tsa tekanotlhakoretharo (3-D) tse di akaretsang dipalo 2, 3 le 4 - Didiriswa tse di kgonngwang go le gonnye ka dikarata tsa ditshwantsho tse di akaretsang nngwe dipalo 2, 3 le 4 - Didiriswa tse di kgonngwang go le gonnye ka dikarata tsa ditshwantsho tse di akaretsang dipalo 2, 3 le 4 • Tiisa kitso e a e ungwileng e e akaretsang dipalo 1 go fitlha ka 4	**Tlhatlhamano ya palo:** • Matshwaopalo: **5 - 7** • Mainapalo: **tlhano, thataro, supa** - Motshameko wa go dirisa mmele (go itemogela ka mmele) - Didiriswa tse di kgonngwang jaaka didiriswa tsa tekanotlhakoretharo (3-D) tse di akaretsang dipalo 5, 6 le 7 - Didiriswa tse di kgonngwang go le gonnye ka dikarata tsa ditshwantsho tse di akaretsang dipalo 5, 6 le 7 - O dira ka didiriswa tse di nang le marontho a a akaretsang dipalo 5, 6 le 7 • Tiisa kitso e a e ungwileng e e akaretsang dipalo 1 go fitlha ka 7	**Tlhatlhamano ya palo:** • Matshwaopalo: **0 - 10** • Mainapalo: **lefela, robedi, robongwe, lesome** - Motshameko wa go dirisa mmele (go itemogela ka mmele) - Didiriswa tse di kgonngwang jaaka didiriswa tsa tekanotlhakoretharo (3-D) tse di akaretsang dipalo 0, 8, 9 le l0 - Didiriswa tse di kgonngwang go le gonnye ka dikarata tsa ditshwantsho tse di akaretsang dipalo 0, 8, 9 le 10 - Didiriswa tse di kgonngwang go le gonnye ka dikarata tsa ditshwantsho tse di akaretsang dipalo 0, 8, 9 le 10 • Tiisa kitso e a e ungwileng e e akaretsang dipalo 1 go fitlha ka 10

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
TEMOGO YA DIPALO				
1.4 **Tlhalosa, bapisa le go rulaganya dipalo** Dirisa dipalo ka bokao jo bo tlwaelegileng	**Dirisa dipalo ka bokao jo bo tlwaelegileng** • Morutwana o tshwanetse go itse dingwaga tsa gagwe • Go tshwaya rejisitara letsatsi le letsatsi • Dirisa ditsela tse di farologaneng go tshwaya rejisitara ya letsatsi le letsatsi sekao - A morutwana yo o nang le letshwao la bebetsididi/ setshwantsho o teng gompieno? - A morutwana yo leina la gagwe e leng Ntobeko o teng gompieno? - A morutwana yo leina la gagwe e leng Ntobeko le wa sefane sa Lobelo, o teng gompieno? • Supa dipalo mo ditshwantshong le dikarata tse di nang le marontho • Tshameka motshameko wa dikarata tsa dipalo	**Dirisa dipalo ka bokao jo bo tlwaelegileng** • Morutwana o tshwanetse go itse dipalo ya ntlo le aterese ya gagwe • Tiisa tiriso ya dipalo ka go feleletsa rejisitara ya kgweditharo ya ntlha - A morutabana yo o dulang mo dipalong ya ntlo ya 123 o teng gompieno? - A morutabana yo o dulang mo mmileng wa Wendy 123 o teng gompieno? - A morutabana yo o nang le mogala/ ka dipalo ya 082 1234567 o teng gompieno? • Supa dipalo mo ditshwantshong le mo maronthong (dots) • Tshameka motshameko wa dikarata tsa dipalo • Supa dipalo mo phasalatsong/ dipampiri ng tsa tshedimosetso, dikarata tsa matsalo tsa kgale jalo jalo	**Dirisa dipalo ka bokao jo bo tlwaelegileng** • Morutwana o tshwanetse go itse dipalo tsa mogala le tsa mogala wa lotheka (dipalo tsa motsadi) • Tiisa tiriso ya dipalo ka go feleletsa rejisitara ya kgweditharo ya ntlha • A morutwana yo o ketekang letsatsi la gagwe la matsalo ka di 16 Mopitlwe, o teng gompieno? • Supa dipalo mo ditshwantshong le mo dikarateng tsa marontho (dots) • Tshameka motshameko wa dikarata tsa dipalo • Supa dipalo mo phasalatsong/ dipampiri tsa tshedimosetso, dikarata tsa matsalo tsa bogologolo, jalo jalo	**Dirisa dipalo ka bokao jo bo tlwaelegileng** • Tiisa kitso e e mabapi le dingwaga tsa morutwana, dipalo ya ntlo, aterese, dipalo ya mogala/mogala wa letheka • Tiisa tiriso ya dipalo ka go feleletsa rejisitara ya kgweditharo ya ntlha • Ke barutwana ba le ba kae ba ba sa tlang sekolong gompieno? Re ka batlisisa jang? Bana ba buisana ka se magareng ga bona. - Fopholetsa - Bala dikhaboto tse di lolea - Bala ditulo tse di lolea • Supa dipalo mo ditshwantshong le mo dikarateng tsa marontho (dots) • Tshameka motshameko wa dikarata tsa dipalo • Supa dipalo mo phasalatsong/ dipampiring tsa tshedimosetso, dikarata tsa matsalo tsa bogologolo, jalo jalo • Supa dipalo mo dimakasineng

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
KGOPOLOPALO (DIKGOLAGANO)				
1.4 **Tlhalosa, bapisa le go rulaganya dipalo** (Supa le go tlhalosa dipalotlalo) Bapisa dilo tse di kgobokantsweng tse di neilweng mme o bue gore ke dife tse pedi tse di: a) Tona /kgolo le nnye b) Kgolo/tona thata le e nnye thata c) Nnye thata thata le tona thata thata Bapisa dilo tse di kgobokantsweng tse di neilweng mme o bue gore ke dife tse pedi tse di: a) Ntsi go b) Nnye go c) Lekanang le (tshwana le)	**Tlhatlhamano ya palo: 1** • Supa le go tlhalosa dipalotlalo go fitlha ka 1	**Tlhatlhamano ya palo: 1 to 5** • Supa le go tlhalosa dipalotlalo go fitlha ka 2,3 le 4 • Tiisa dipalo 1 go fitlha ka 4	**Tlhatlhamano ya palo: 1 to 7** • Supa le go tlhalosa dipalotlalo go fitlha ka 5,6 le 7 • Tiisa dipalo 1 go fitlha ka 7	**Tlhatlhamano ya palo: 0 to 10** • Supa le go tlhalosa dipalotlalo go fitlha ka 8,9,10 • Tiisa dipalo 0 go fitlha ka 10
	Bapisa dilo tse di kgobokantsweng tse di neilweng mme o bue gore ke dife tse pedi tse di: • Tona/kgolo le nnye • Tona /kgolo thata le nnye thata • Nnye thata thata le tonna thata thata (itsise kgopolo) • Rulaganya dilo tse di fetang tse pedi tsa didiriswa tse di kgobokantsweng, go tloga go e nnye thata go ya go e tona/kgolo thata le tona thata go ya go e nnye thata			
	• Bontsi le bonnye, Sekao, go opa diatla ka tshoganyetso	• Ntsi go, nnye go, e lekana le • Bontsi le bonnye, Sekao, go opa diatla ka tshoganyetso	• Ntsi go, nnye go, lekana le • Ntsi le nnye, sekao, go opa diatla ka tshoganyetso. O botse dipotse gore ke opile diatla ga kae	• Ntsi go, nnye go, lekana • Ntsi le nnye, sekao, go opa diatla ka tshoganyetso. O botse dipotse gore ke opile diatla ga kaebobedi, la boraro, la bone , la botlhano, la borat

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
Palokemotatelano	Godisa temogo ya palokemotatelano ka tshoganyetso sekao, la ntlha, la bobedi, la boraro....la bofelo • Itsise ka nako ya dijo le ka nako ya tlwaelo ya ntloboithusetso – ya ntlha, ya bobedi, bofelo, e e tlang	Godisa temogo ya palokemotatelano ka tshoganyetso sekao, la ntlha, la bobedi, la boraro....la bofelo • Boeletsa dipalokemotatelano ka tshoganyetso fa bana ba ya ntlwaneng ya boithusetso • Ka nako ya ditirwana tsa Ikatiso ya Mmele ya serutwa sa Dikgono tsa Botshelo, • Le ka nako ya ditirwana tsa botaki jwa boitlhamedi (mo go tshwanetseng teng)	Godisa temogo ya palokemotatelano ka tshoganyetso sekao, la ntlha, la bobedi, la boraro, la bone, la botlhano....la bofelo • Boeletsa dipalokemotatelano ka tshoganyetso fa bana ba ya ntlwaneng ya boithusetso • Ka nako ya ditirwana tsa Ikatiso ya Mmele ya serutwa sa Dikgono tsa Botshelo,	Godisa temogo ya palokemotatelano ka tshoganyetso sekao, la ntlha, la aro....la bofelo • Itsise palokemotatelano-la ntlha,la bobedi, la boraro • Boeletsa dipalokemotatelano ka tshoganyetso ka tshoganyetso fa bana ba ya ntlwaneng ya boithusetso • Le ka nako ya ditirwana tsa botaki jwa boitlhamedi (mo go tshwanetseng teng)
RARABOLOLA DIPALO MO TIRISONG O DIRISA DITOGAMAANO TSE DI LATELANG:				
1.6 **Ditogamaano tsa go rarabolola dipalo** (Dirisa malepa le ditogamaano tse di latelang)	O dirisa malepa a a latelang: • Didiriswa tse di kgonngwang, sekao, dibadisi	O dirisa malepa a a latelang: • Didiriswa tse di kgonngwang, sekao, dibadisi	O dirisa malepa a a latelang: • Didiriswa tse di kgonngwang, sekao, dibadisi • Llere ya dipalo	O dirisa ditogamaano tse di latelang: • Didiriswa tse di kgonngwang, sekao, dibadisi • Llere ya dipalo

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
1.7 **Go tlhakanya le go ntsha/tlosa** Rarabolola dipalo tsa mafoko ka go bua (dipalo tsa kgang) le go tlhalosa ditharabololo tsa bona o akaretsa: a) Go tlhakanya le go ntsha Dipalo tse dikarabo tsa tsona di fitlhelelang ka 10 **1.9** **Go kgobokanya le go kgaoganya go go lebiseditseng kwa go aroleng** (Kgaoganyo le kgobokanyo e e lekanang ba dirisa dipalotlalo tse di fitlhang ka 10 tsa dikarabo tse di akaretsang sesala)		• Dirisa dibadisi le go rarabolola dipalo ka molomo tse di akaretsang dipalo 2,3 le 4 • Gatelela tharabololo ya dipalo tse di akaretsang dipalo 1 go fitlha ka 4	• Dirisa dibadisi le go rarabolola dipalo ka molomo tse di akaretsang dipalo 5,6 le 7 • Gatelela tharabololo ya dipalo tse di akaretsang dipalo 1 go fitlha ka 7	• Dirisa dibadisi le go rarabolola dipalo ka molomo tse di akaretsang dipalo 8,9,10 le 0 • Gatelela tharabololo ya dipalo tse di akaretsang dipalo 1 go fitlha ka 10

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
1.11 **Tšhelete**		**Tšhelete** • Kgodiso ya temogo ya tšhelete a papetlana a Aforika Borwa 20c, 50c, R1, R2, R5 • Supa mmala le phologolo e e tshwantshitsweng mo tšheleteng mangwe le mangwe • Supa go tshwana le go farologana magareng ga tšhelete a dipapetlana, sekao, tšhelete a a tshamekang go ya ka mmala le bogolo. • Neelana ka tšhelete a motshameko mo sekhutlwaneng sa kwa gae	**Tšhelete** • Kgodiso ya temogo ya tšhelete a pampiri a Aforika Borwa R10, R20, R 50, R100, R200 • Supa go tshwana le go farologana magareng ga tšheletea dipampiri, sk. Rulaganya tšhelete a a tshamekang go ya ka mmala le bogolo. • Neelana ka tšhelete a motshameko mo sekhutlwaneng sa kwa gae	**Tšhelete** • Neelana ka tšhelete a go tshameka mo sekhutlwaneng sa kwa gae
BALELA O DIRISA:				
1.13 **Go tlhakanya le go ntsha/tlosa** (O rarabolola ka go tlhakanya le go ntsha dipalo tse di neilweng ka molomo tse dikarabo tsa tsona di fitlhang ka 10)		O rarabolola ka go tlhakanya le go ntsha dipalo tse di neilweng ka molomo tse dikarabo tsa tsona di fitlhang ka 4	O rarabolola ka go tlhakanya le go ntsha dipalo tse di neilweng ka molomo tse dikarabo tsa tsona di fitlhang ka 7	O rarabolola ka go tlhakanya le go ntsha dipalo tse di neilweng ka molomo tse dikarabo tsa tsona di fitlhang ka 10

Mefuta ya Dipalo tsa Mophato R

Dipalo tse di newang barutwana ba Mophato wa R di tshwanetse go akaretsa didiriswa tse di fitlhelwang mo phaposing, sekao, dibadisi, bana, ditlhako, o seka wa dira dikao ka dimonamone, mebutlwa, dithunya/malomo, jalo jalo. Ga se bana botlhe ba bannye ba ba kgonang go dira e kete dibadisi kgotsa menwana ke mebutla-ba tlhoka didiriswa ka bo bona. Morutabana a ka nna a dirisa ditshwantsho fela mo halofong ya bobedi ya ngwaga. Didiriswa tse di kgonngwang le tsona di tshwanetse go ka bolokiwa-ditshwantsho di ka tlaleletsa, mme di seka tsa emela didiriswa tse di kgonngwang. Dithupana di ka dirisiwa fa morutabana a tlhoka didiriswa/dithusathuto.

Dipalo tse di latelang di bontsha mefuta ya dipalo, mme di tshwanetse go fetolwa ke morutabana go tshwanela maemo a barutwana a go tlhaloganya.

Kgobokanyo

Go na le dikuku di le robedi (morutabana o ntsha dibadisi di le robedi kgotsa o bontsha barutwana setshwantsho sa dikuku di le robedi) Tlotlo o newa dikuku di le pedi letsatsi le letsatsi. O ya go newa dikuku matsatsi a le makae?

Kgaoganyo

Go na le dikuku di le thataro. (Morutabana o ntsha dibadisi di le thataro kgotsa o bontsha barutwana setshwantsho sa dikuku di le thataro). Dibera di le tharo di tshwanetse go kgaoganya dikuku gore tsotlhe di bone dipalo e e tshwanang ya dikuku. Bera e le nngwe e ya go bona dikuku di le kae?

Tlhakanya, ntsha, tlhakanya ka go boeletsa

Bana ba le babedi ba na le matlho a le makae?

Bana ba le bane ba na le ditsebe di le kae?

Go na le menwana e le mekae mo seatleng se le sengwe?

Go na le menwana e le mekae mo diatleng di le pedi?

Masego o na le didiriswa di le thataro. O naya Boitumelo di le pedi.O na le dibadisi di le kae jaanong?

Barutabana ba tshwanetse go kopanya mefuta ya dipalo letsatsi le letsatsi. Ba tshwanetse go oketsa bogolo jwa dipalo tse ba di dirisang ka bonya, ga ba tshwanela go ikakanyetsa gore barutwana ga ba kgone go dira ka dipalo tse di tonnna/kgolo.

THADISO YA DIPALO YA MOPHATO R 2. DIPATERONE LE DITIRISO (XXX)				
DITENG	**KGWEDITHARO 1**	**KGWEDITHARO 2**	**KGWEDITHARO 3**	**KGWEDITHARO 4**
2.2 **Dipaterone tsa Dipalo tsa Jeometeri** (Kopolola le go atolosa dipaterone tse di bonolo tse di ipoeletsang o dirise didiriswa tse di kgonngwang le ditshwantsho) Itlhamele dipaterone tse di boeletsang	• Supa dipaterone mo diaparong, didirisweng le mo tikologong • Kopolola o feleletse dipaterone • Kopolola dipaterone o dirisa mmele jaaka seletswa • Kopolola, feleletsa le go itlhamela dipaterone	• Kopolola, feleletsa le go itlhamela dipaterone • Kopolola paterone e e neetsweng o dirisa tšhelete a dipapetlana	• Kopolola, feleletsa le go itlhamela dipaterone ka ditshwatsho	• Kopolola, feleletsa le go itlhamela dipaterone tsa kutlo • Kopolola paterone ya modumo • Tshameka motshameko wa paterone wa sekotšhe

THADISO YA DIPALO YA MOPHATO R 3. BOALO LE POPEGO (JEOMETERI)				
DITENG	**KGWEDITHARO 1**	**KGWEDITHARO 2**	**KGWEDITHARO 3**	**KGWEDITHARO 4**
3.1 **Maemo, kitsiso le dipono** Tlhalosa selo se le sengwe sa tlhakoretharo le kamano ya sona le se sengwe (sekao, 'fa pele le fa morago)	**Botsalano jwa boalo** **Maemo a dilo di le pedi kgotsa go feta le kamano ya tsona le morutwana** • Fa pele ga le fa morago ga • Mo, mo godimo ga, fa tlase • Mo gare le kwa ntle • Kwa godimo le kwa tlase • Gaufi le mo gare **Motshameko wa kwa ntle o botlhokwa. Ikatiso ya Jankele e ka dirisiwa go matlafatsa, sekao tse di latelang:** • Dikgopolo tsa Dipalo • Botaki jwa Boitlhamedi • Tlhabololo/Kgolo mmele	**Botsalano jwa boalo** **Maemo a selo se le sengwe kgotsa go feta di amana le tse dingwe** • Mo godimo le mo tlase	**Maemo a selo se le sengwe kgotsa go feta di amana le tse dingwe** • Fa pele ga le fa morago • Mo, mo godimo ga, fa tlase ga • Gaufi le • Mo gare • Molema le moja • Tiro ya boto ya ditlhomelwa **Tlhalosa dilo go tswa mo maphateng a a farologaneng, sekao, mpopo, ntlo go tswa kwa pele, kwa morago, kwa thoko go tswa gore o eme kae.**	**Botsalano jwa boalo** **Maemo a selo se le sengwe kgotsa go feta di amana le tse dingwe** • Fa pele ga le fa morago ga • Mo godimo, fa tlase • Gaufi le mo gare • Molema le moja **Maemo a selo se le sengwe kgotsa go feta di amana le tse dingwe** • Tiro ya boto ya ditlhomelwa • Fa pele ga le fa morago • Mo godimo, fa tlase • Gaufi le, mo gare • Molema le moja
Sala dikaelo morago (a le esi kgotsa e le tokololo ya setlhopha) go ipaya mo phatlheng e e kgethegileng (dikaelo)	• Tshupokaelo – kwa pele le kwa morago • Metshameko jaaka go batla terena • Khoso ya dikgoreletsi- ba sala dikaelo morago • Ditirwana tsa Thuto ya Ikatiso mmele le mmino		• Kwa pele/kwa morago • Tšhate ya motsutshupo	• Kwa pele le kwa morago • Kwa godimo le kwa tlase • Molema le moja • Modumo o tswa kae?

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
3.2 **Didiriswa tsa tekanotlhakoretharo/ matlhakoretharo** **(3-D)** Lemoga, tlhaola/ bontsha le go naya maina a dilo tsa tekanopedi/ matlhakoretharo mo phaposiborutelong. a) dikgwele/dibolo b) dibokoso	• **dikgwele/dibolo:** itsise le go dirisa dikgwele/dibolo • **dibokoso**: itsise le go dirisa dibokoso			
3.2 **Didiriswa tsa tekanotlhakoretharo/ matlhakoretharo** **(3-D)** Tlhalosa, aroganya le go bapisa dilo tsa tlhokoretharo/ tekanopedi le dipopego tsa tlhakorepedi/ tekanotharo go ya ka: a) Bogolo (bogolo/ bonnye) b) Mmala (khibidu,botala jwa legodimo, serolwana, botala jwa tlhaga) c) Popego (sediko, khutlotharo, khutlonne, khutlonnetsepa) d) Dilo tse di pitikologang e) Dilo tse di relelang	• **Tšhate ya Phepafatso** (Karoganyo ya ditshamekisi) • **Bogolo:** Aroganya dilo tse di tlhakoretharo go ya ka bogolo. • **Mmala:** Aroganya dilo tse di tlhakoretharo le dipopego tse di tlhakorepedi go ya ka mebalatheo. • **Popego:** Aroganya dilo tse di tlhakoretharo le dipopego tse di tlhakorepedi go ya ka dipopego. • Dilo tse di pitikologang - Tlhaola le go tlhotlhomisa dilo tse di pitikologang - Poeletso ya dilo tse di pitikologang • **Dilo tse di relelang** - Tlhaola le go tlhotlhomisa dilo tse di relelang - Tlhaola le go tlhotlhomisa dilo tse di ka relelang le go kgokologa	• Aroganya go ya ka go tshwana le go farologana • **Bogolo:** Aroganya dilo tse di tlhakoretharo go ya ka bogolo. • **Mmala:** Tlhaola le go aroganya dibadisi go ya ka mebala e: khibidu, botala jwa legodimo, serolwana le botala jwa tlhaga • **Popego:** Aroganya dilo tse di tlhakoretharo le dipopego tse di tlhakorepedi go ya ka dipopego.	• **Bogolo:** Aroganya dilo tse di *tlhakoretharo go ya ka bogolo.* • **Mmala:** Aroganya dilo tse di tlhakoretharo le dipopego tse di tlhakorepedi go ya ka mebala • **Popego:** Aroganya dilo tse di tlhakoretharo le dipopego tse di tlhakorepedi go ya ka dipopego.	• **Bogolo:** Aroganya dilo tse di tlhakoretharo go ya ka bogolo. • **Mmala:** Aroganya dilo tse di tlhakoretharo le dipopego tse di tlhakorepedi go ya ka mebala • **Popego:** Aroganya dilo tse di tlhakoretharo le dipopego tse di tlhakorepedi go ya ka mebala.

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
Aga dilo tsa tlhakoretharo ka go dirisa didirisiwa tse di kgonngwang (sekao. Aga ka diboloko)	**Tswelela** • Neela didirisiwa tse di agang diboloko ka nako ya motshameko o o lokologileng letsatsi lengwe le lengwe. • Aga ka diboloko	**Tsweletsa** • Neela diboloko tsa go aga le materiale wa kago ka nako ya motshameko o o lokologileng letsatsi lengwe le lengwe. • Aga ka diboloko	**Tsweletsa** • Neela diboloko tsa go aga le materiale wa kago ka nako ya motshameko o o lokologileng letsatsi lengwe le lengwe. • Letla barutwana go ikagela dikago tsa bona ka go kopisa go tswa mo sekaong sa kago e e neetsweng. • Kopa kago e e tshwanang le e e mo moakanyetsong kgotsa mo karateng ya setshwantsho • Boeletsa go kopa kago e e tshwanang le e e mo moakanyetsong kgotsa mo karateng ya setshwantsho	**Tsweletsa** • Neela diboloko tsa go aga le materiale wa kago ka nako ya motshameko o o lokologileng letsatsi lengwe le lengwe. • Tsweletso ka nako ya motshameko o o lokologileng letsatsi lengwe le lengwe
3.3 Didiriswa tsa tekano-tlhakorepedi (2-D) Lemoga, tlhaola/ bontsha le go naya maina a dilo tsa tekanyo ya dipopegopedi/ matlhakorepedi mo phaposiborutelong le mo ditshwant-shong, go akaretsa: a) Matshwao a barutwana b) Leina la phaposiborutelo **Malepa a agiwa jang - Bonnye:** (Kgwedithoro 1: ditiro di le 6) (Kgwedithoro 2: ditiro di le 12) (Kgwedithoro 3: ditiro di le 18) (Kgwedithoro 4: ditiro di le 24)	• Letla morutwana mongwe le mongwe go itlhophela karata ya letshwao ka letsatsi la ntlha. • Bontsha fela **letshwao/ setshwantsho** sa morutwana ka dikgwedi tse tharo tsa ntlha tsa ngwaga. • Itsise leina la phaposiborutelo sekao, ka go dirisa setshwantsho- "phaposiborutelo ya dibera" • Tshwaya ka go baya leina la morutabana mo lebating la phaposiborutelo • Tshwaya ka go baya Mophato wa R mo phaposiborutelong **Malepa** • **Itsise malepa** o be o neela dikaelo tsa gore di agiwa jang. • Tlotla ka ditshwantsho tsa malepa mme go tlhokometswe thata dintlha tse di jaaka: mmala, batho/ diphologolo, dilo, maemo a batho/ diphologolo le dilo. • Barutwana ba tshwanetse go kgona go feleletsa bonnye malepa a dikarolo di le 6 kwa bokhutlong jwa kgwedithoro 1.	• Bontsha **letshwao/setshwantsho** le leina la morutwana fela mo dikgweding tse tharo tse di latelang • Tswelela **Malepa (tswelela)** • Neela malepa a a farologaneng ka nako ya motshameko o o gololesegileng ka mo gare ga phaposiborutelo letsatsi lengwe le lengwe. • Barutwana ba tshwanetse go kgona go feleletsa bonnye malepa a dikarolo di le 12 kwa bokhutlong jwa kgwedithoro 2. • Dira le go feleletsa malepa a dikarolo di le 4 tsa gagwe.	• Bontsha **leina la morutwana** fela mo letshwaong mo dikgweding tse tharo tse di latelang • Tswelela **Malepa (tswelela)** • Neela malepa a a farologaneng ka nako ya motshameko o o gololesegileng ka mo gare ga phaposiborutelo letsatsi lengwe le lengwe. • Barutwana ba tshwanetse go kgona go feleletsa bonnye malepa a dikarolo di le 18 kwa bokhutlong jwa kgwedithoro 3 • Dira le go feleletsa malepa a dikarolo di le 5 tsa gagwe.	• Bontsha **leina la morutwana** fela mo letshwaong mo dikgweding tse tharo tse di latelang • Tswelela **Malepa (tswelela)** • Neela malepa a a farologaneng ka nako ya motshameko o o gololesegileng ka mo gare ga phaposiborutelo letsatsi lengwe le lengwe. • Barutwana ba tshwanetse go kgona go feleletsa bonnye malepa a dikarolo di le 24 kwa bokhutlong jwa kgwedithoro 4.

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
3.3 **Dipopego tsa tekano-tlhakorepedi** **(2-D)** **Temogo ya popego e e fitlhegileng** Dipopego tsa JEOMETERI/ Jeometeri a) Sediko b) Khutlotharo c) Khutlonne d) Khutlonnetsepa e) Poloko ya dipopego	• Itsise temogo ya popego e e fitlhegileng • (tlhaola/supa dilo- “ke dirisa matlho a me go nna setlhodi”) • Itsise sediko • Itsise khutlotharo • Itsise khutlonne	• Poeletso ya temogo ya popego e e fitlhegileng ka ditirwana tsa go aroganya, bapisa le tsa nyalanyo le go phepafatsa tsamaiso ya gale. • Poeletso ya khutlotharo • Poloko ya popego (dira tlhomamo ya khutlotharo)	• Poeletso ya temogo ya popego e e fitlhegileng ka ditirwana tsa go aroganya, bapisa le tsa nyalanyo le go phepafatsa tsamaiso ya gale. • Poeletsoya khutlonne • Poloko ya popego (dira tlhomamo ya popego e a ithutileng yona go fitlhela jaanong)	• Poeletso ya temogo ya popego e e fitlhegileng ka ditirwana tsa go aroganya, bapisa le tsa nyalanyo le go phepafatsa tsamaiso ya gale. • Poeletso ya sediko, khutlotharo, khutlonne le khutlonnetsepa • Poloko ya popego (dira tlhomamo ya popego e a ithutileng yona go fitlhela jaanong)
3. **Tekano** (Lemoga mola wa tekano mo go ena le mo tikologong ya gagwe)	• Tlhaola /bontsha dikarolo tsa mmele (ka go di bala) • Tlhogo, matlho, nko, molomo, seledu, molala/thamo, magetla, letsogo, seatla, menwana, sehuba, leoto, lengwele, leoto, menwana ya kgonope • Mmele wa motho o na le matlhakore a le mabedi • Gatelela temogo ya gore mmele wa motho o na le matlhakore a le mabedi, sekao, go na le letlhakore la moja le la molema” Go kgabaganya molagare o tsenyeleditse go bala • Tse di fa godimo di ka dirwa ka nako ya kgodiso ya mmele • Dirisa diraeme le dipina ka nako ya Botaki jwa Boitlhamedi	• Go kgabaganya molagare – ditiro tse di diragadiwang • Dirisa kgabaganyo ya molagare ka nako ya serutwa sa Dikgono tsa Botshelo (kgodiso ya mmele) • Dirisa diraeme le dipina ka nako ya Botaki jwa Boitlhamedi	• Kgabaganya molagare – ditirwana tsa patitšhoko • Dirisa kgabaganyo ya molagare ka nako ya serutwa sa Dikgono tsa Botshelo (kgodiso ya mmele)	• Gatelela temogo ya gore mmele wa motho o na le matlhakore a le mabedi, sekao, go na le letlhakore la moja le la molema” • Dirisa kgabaganyo ya molagare ka nako ya serutwa sa Dikgono tsa Botshelo (kgodiso ya mmele)

THADISO YA MOPHATO R 4. TEKANYO				
DITENG	**KGWEDITHARO 1**	**KGWEDITHARO 2**	**KGWEDITHARO 3**	**KGWEDITHARO 4**
4.1 **Nako:** **Tlhalosa nako ya letsatsi o lebile:** Motshegare kgotsa bosigo	• Itsise dikgopolo ka bobedi "motshegare le bosigo" le "lesedi/ lefifi" • Mo mosong, thapama, bosigo-go ithuta ka tshoganyetso mo tsamaong ya lenaneo la letsatsi le letsatsi le tshate ya maemo a bosa)			
Rulaganya ditiragalo tse di ipoeletsang mo matshelong a bona a letsatsi le letsatsi a) Lenaneo la letsatsi le letsatsi	• **Itsise lenaneo la letsatsi le letsatsi** - Barutwana ba itemogela tatelano ya ditiragalo mo tsamaong ya letsatsi - Ditshwatsho di bontshiwa go tswa kwa molemeng go ya kwa mojeng go godisa dikaelo tsa go buisa - Moeteledipele wa letsatsi o tsamaisa motsu fa ditirwana tsa letsatsi di tsweletse	• **Lenaneo la letsatsi le letsatsi (tsweletso)** - Boeletsa thulaganyo ya ditiragalo tsa letsatsi ka go lebelela lenaneo la letsatsi	• **Lenaneo la letsatsi le letsatsi (tsweletso)** - Boeletsa thulaganyo ya ditiragalo tsa letsatsi ka go lebelela lenaneo la letsatsi	• **Lenaneo la letsatsi le letsatsi (tsweletso)** - Boeletsa thulaganyo ya ditiragalo tsa letsatsi ka go lebelela lenaneo la letsatsi
b) Tshate ya maemo a bosa	• **Itsise tshate ya maemo a bosa (ya letsatsi le letsatsi)** - Morutabana o kaetsa barutwana go tlhomamisa leina la letsatsi, letlha le kgwedi ka go opela dipina le diraeme, le go bontsha matshwao a beke mo alemanakeng a a emelang beke - Godisa temogo ya kgopolo ya nako. - Supa matsatsi a matsalo, a maeto, a a kgethegileng, a boikhutso mo bekeng. - Rulaganya dikgwedi tsa ngwaga ka go opela pina	• **Tshate ya maemo a bosa (letsatsi le letsatsi)** - Morutabana o kaetsa barutwana go tlhomamisa leina la letsatsi, letlha le kgwedi ka ditsekedima/ dikarata tsa dipontsho le go bontsha matshwao a a emelang beke mo alemanakeng	• **Tshate ya maemo a bosa (letsatsi le letsatsi)** - Morutabana o kaetsa barutwana go tlhomamisa leina la letsatsi, letlha le kgwedi ka ditsekedima/ dikarata tsa dipontsho le go bontsha matshwao a a emelang beke mo alemanakeng	• **Tshate ya maemo a bosa (letsatsi le letsatsi)** - Morutabana o kaetsa barutwana go tlhomamisa leina la letsatsi, letlha le kgwedi ka ditsekedima/ dikarata tsa dipontsho le go bontsha matshwao a a emelang beke mo alemanakeng

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
c) Matsatsi a beke	• **Matsatsi a beke** - Morutabana o ruta barutwana pina kgotsa raeme ka ga matsatsi a beke. Pina e boeletswe letsatsi le letsatsi fa go buisanwa ka tshate ya maemo a bosa. - Rulaganya matsatsi a beke o dirisa pina	• **Matsatsi a beke** (Tsweletso) - Morutabana o ruta barutwana pina kgotsa raeme ka ga matsatsi a beke. Pina e boeletswe letsatsi le letsatsi fa go buisanwa ka tshate ya maemo a bosa.	• **Matsatsi a beke** (Tsweletso)	• **Matsatsi a beke** (Tsweletso)
d) Tshate ya ditlha	• **Tshate ya ditlha tsa ngwaga** - Itsise karata e e bontshang ditlha tsa ngwaga di le nne: o Selemo o Letlhabula o Mariga o Dikgakologo	• **Tshate ya ditlha tsa ngwaga** - Motsu o o bontshang setlha sa jaanong o a tsamaisiwa go bontsha go fetoga ga ditlha. - Letsatsi la ntlha morago ga matsatsi a boikhutso, morutabana o tshwanetse go botsa barutwana se ba neng ba se dira ka matsatsi a boikhutso. - Godisa temogo ka ga se morutwana a se dirang go tloga ka nako e a tsogang ka yona go fitlhela a ya sekolong. - Godisa temogo ka ga se se diragalang fa gare ga nako ya dijo tsa bosigo le nako ya go robala.	• **Tshate ya ditlha tsa ngwaga** - Motsu o o bontshang setlha sa jaanong o a tsamaisiwa go bontsha go fetoga ga ditlha. - Letsatsi la ntlha morago ga matsatsi a boikhutso, morutabana o tshwanetse go botsa barutwana se ba neng ba se dira ka matsatsi a boikhutso.	• **Tshate ya ditlha tsa ngwaga** - Motsu o o bontshang setlha sa jaanong o a tsamaisiwa go bontsha go fetoga ga ditlha. - Letsatsi la ntlha morago ga matsatsi a boikhutso, morutabana o tshwanetse go botsa barutwana se ba neng ba se dira ka matsatsi a boikhutso.
Itsise tshate ya matsatsi a botsalo	• Itsise matsatsi a botsalo • Barutwana ba tshwanetse go itse dingwaga tsa bona • Godisa temogo ya go buisa dikaelo • Barutwana ba tshwanetse go itse matlha a matsalo a bona (letsatsi le kgwedi)	• Morutwana a tswelele ka go itsise letsatsi la matsalo nako nngwe le nngwe fa e le letsatsi la matsalo la morutwana mongwe. • Tsweletso	• Morutwana a tswelele ka go itsise letsatsi la matsalo nako nngwe le nngwe fa e le letsatsi la matsalo la morutwana mongwe. • Tsweletso	• Morutwana a tswelele ka go itsise letsatsi la matsalo nako nngwe le nngwe fa e le letsatsi la matsalo la morutwana mongwe. • Tsweletso

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
4.2 **Boleele** Bapisa/ tshwantshanya le go rulaganya didiriswa o dirisa tlotlofoko e e maleba go tlhalosa boleele • Itsise tšhate ya bogodimo - Go lekanyetsa ka daitla (ka pono le ka tshoganyetso) - Go lekanyetsa ka go dirisa dikgato (ka pono le ka tshoganyetso) - Lekanyetsa ka go dirisa theipi (ka pono le ka tshoganyetso) - Telele, khutshwane, - telelenyana, khutshwan-yana, - moleele ka, moleelen-yana/ moleele thata (fopholetsa ka tebo)	**Boleele** • Telele le khutshwane, telele ka seemo, telelenya ka seemo le telele thata ka seemo (pono) • Itsise barutwana ka kgopolo ya boleele • Tšhate ya bogodimo e e nang le diatla /dikgato	**Boleele** • Telele thata le khutshwane thata, telelenyana le khutswanenyana • (utolola boleele) • Boeletsa kgopolo ka ga boleele • Barutwana ba lemoga gore a ba godile fa go bapisiwa le kgwedithar o e e fetileng ***(Barutwana ba ka bapisa bogodimo jwa bona le sengwe mo phaposing, sekao, khaboto)***	**Boleele** • Fopholetsa boleele jwa didiriswa tse di farologaneng • Fopholetsa le go lekanyetsa boleele jwa dilo tse di farologaneng ba dirisa dinao/dikgato, diatla, mogala, thupana jj.	**Boleele** • Lekanyetsa bogodimo jwa barutwana ka go dirisa theipi ya go lekanyetsa ***(dirisa matsogo mo boemong jwa theipi ya go lekanyetsa)***

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
4.3 **Boima** Bapisa/ tshwantsha le go rulaganya didiriswa tse di angwang o dirisa tlotlofoko e e maleba go tlhalosa tse di latelang: a) Bofefo, boima c) Bofefonyana, boimanyana d) Morutabana o tswelela a dira se, ka nako ya go tshameka ka metsi le mmu			**Boima** • Itsise kgopolo ka ga boima ka go bapisa boima jwa didiriswa tse di farologaneng , sekao - Bofefo/boima - Bofefonyana/boimanyana • Boeletsa thuto ya boima (bofefo thata/boima thata	
4.4 **Mothamo/boteng** Bapisa/ tshwantsha le go rulaganya didiriswa tse di kgonngwang o dirisa tlotlofoko e e maleba go tlhalosa tse di latelang: a) Lolea, e tletse b) Selekanyo sentsi, selekanyo sennye c) E nnye go, e ntsi go d) Morutabana o tswelela a dira se, ka nako ya motshameko wa metsi le mmu			**Mothamo/Boteng** • Itsise kgopolo ka ga mothamo/ boteng ka go bapisa/tshwantsha selekanyo sa ditshedi tse, sekao. - “e tletse/ e lolea” - “ e ntsi go, e nnye go” - Boeletsa thuto ka ga mothamo/ boteng • Morutabana o tswelela go ruta se, ka nako ya go tshameka ka metsi le mmu	

THADISO YA MOPHATO R 5. GO DIRA KA TSHEDIMOSETSO YA DIPALO				
DITENG	**KGWEDITHARO 1**	**KGWEDITHARO 2**	**KGWEDITHARO 3**	**KGWEDITHARO 4**
5.1 **Kgobokanya le go rulaganya didiriswa** **Kgobokanya tshedimosetso** O kgobokanya didiriswa tse di kgonngwang tse di tshwanang (a le mongwe le/ kgotsa jaaka leloko la setlhopha) sekao. matlhare a le some, dipopego di le some **Rulaganya tshedimosetso** Rulaganya didiriswa tse di kgonngwang go ya ka ponagalo e le nngwe, sekao bogolo jwa matlhare	• Itsise kgopolo ka ga tshedimosetso ya dipalo ka go kgobokanya tshedimosetso, gore palo ya basimane le basetsana mo phaposing ke bokae. • Rulaganya tshedimosetso ka go letlelela barutwana go ema mo moleng wa basetsana le basimane	• Kgobokanya didiriswa (dithupana tsa boleele jo bo farologaneng) • Rulaganya didiriswa tse di kgobokantsweng (matlhaka a bogolo jo bo farologaneng)	• Botsa potso:" A maina a a nang le ditlhaka tse thataro a tlwaelegile thata?" • Kgobokanya tshedimosetso go araba potso e o dirisa dikarata tse di kwadilweng maina a barutwana • Rulaganya dikarata tsa maina go ya ka ditlhaka tse di simololang maina a barutwana.	• Dirisa tšhate ya matsalo go tlhotlhomisa gore ke barutwana bafe ba matsatsi a bona a matsalo a leng mo kgweding e e rileng • Kgobokanya tshedimosetso go tswa mo barutwaneng go tlhotlhomisa mmala wa tege ya go tshameka o o tla dirisiwang beke e e latelang, sekao, serolwana, botala jwa legodimo, botala Kgobokanya tshedimosetso (ke mofuta ofe wa sepalamo o barutwana ba o dirisang go tla sekolong.) • Rulaganya tshedimosetso go ya ka matsatsi a botsalo a a lebaneng le kgwedi e morutwana a tsetsweng ka yona • Morutwana mongwe le mongwe o tlhopha boloko e le nngwe e e emelang mmala o a itlhophetseng ona wa tege e e tshamekang mo bekeng. • Rulaganya tshedimosetso e e kgobokantsweng (barutwana ba ba tsamayang ka dinao, ba ba tsamayang ka koloi ya batsadi, thekisi kgotsa bese)

DITENG	KGWEDITHARO 1	KGWEDITHARO 2	KGWEDITHARO 3	KGWEDITHARO 4
5.2 **Emela didiriswa tse di kgobokantsweng** (Thala/ Tshwantsha dikerafo tse di bontshang tshedimosetso) Thala setshwantsho jaaka rekoto ya didiriswa tse di kgobokantsweng	• Tshwantsha kerafo e e nang le tshedimosetso o dirisa diboloko kgotsa dipopego	• Thala/Tshwantsha kerafo ya didiriswa tse di kgobokantsweng (matlhaka a bogolo jo bo farologaneng)	• Thala/Tshwantsha kerafo ka go kgomaretsa karataina ya morutwana mongwe le mongwe mo tlase ga kholomo e e maleba	• Thala/tshwantsha kerafo e e bontshang matsatsi a botsalo a barutwana mo kgweding nngwe le nngwe. • Dirisa didiriswa tsa nnete go dira kerafo jaaka diboloko, dikhubiki tse di tlhatlhagantsweng, diboloko tsa *Duplo/Lego* tse di emelelang mebala ya tege e o ipaakanyetsang go e dira sekao, serolwana, botala jwa legodimo le mmala o o botala jwa tlhaga. • Thala kerafo ya ditshwantsho e e bontshang barutwana ba ba tsamayang, ba ba tlang ka thekesi, ba ba tlang le batsadi le ba ba tsamayang ka bese.
5.3 **Buisana le go bega ka dilo tse di kgobokantsweng tse di rulagantsweng** Buisa le go ranola dikerafo Araba dipotso tse di theetsweng mo ditshwantshong tsa bona kgotsa mo didirisweng tse ba di kgobokantseng (sekao, o thadile matlhare a makae a matona? Ke afe a mantsi, a ke a matona kgotsa a mannye?)	• Buisa o be o ranole tshedimosetso ka go dirisa tege ya go tshameka go emela dipalo ya basimane le basetsana mo phaposing.	• Buisa le go ranola kerafo ka go dirisa dipotso	• Buisa le go ranola tshedimoseto ka go bala dikarata tsa dipalo mo kholomong nngwe le nngwe le go tsaya ditshwetso.	• Buisa le go ranola kerafo o dirisa dipotso go tlhotlhomisa kgwedi e e nang le matsatsi a matsalo a mantsi • Go ya ka tlhopho ya barutwana, mmala wa tege ya go tshameka wa beke e ka nna, sekao, serolwana • Buisa le go ranola dikerafo (ke ba bakae ba ba tsamayang, ba ba tlang ka thekesi, bese jalo jalo.

3.5 TLHALOSO YA DINTLHA TSA DITENG KA DIKAELO TSA GO RUTA

DIPALO TSA MOPHATO R KGWEDI-THARO 1			
Beke 1	**Nako e e tshitshintsweng ya go ruta**		
Kitsiso	**Tirwana ya e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlagenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.1 **Nako**	**Itsise lenaneo la letsatsi le letsatsi** • Godisa tatelano ya ditiragalo mo letsatsing le nosi - Ditshwantsho di a bontshiwa go tswa mo molemeng go ya kwa mojeng - Moeteledipele wa letsatsi o šutisa motswi go tswa mo molemeng go ya kwa mojeng fa ditirwana tsa letsatsi di ntse di tsweletse - Barutwana ba itemogela tatelano ya ditiragalo mo letsatsing	Lenaneo la letsatsi le letsatsi le tshwantshitswe mo setshwantshong	Letsatsi le letsatsi, fa o ba itsesitse

LENANEO LE LE TSHITSHINTSWENG










Nako ya go fitlha	**Rejisitara, matsalo', maemo a bosa, dikgang**	**Tirwana tsa phaposi tse di kaelwang ke morutabana (rulagantswe mo pholising),botsweretshi jwa pono le motshameko o o golosegileng mo phaposing**	**Go phutha**	**Tirwana tsa phaposi tse di kaelwang ke morutabana (rulagantswe mo pholising)**	**Tlwaelo ya go ya kwa ntlwaneng**








Iapologa	**Nako ya motshameko o o gololosegileng kwa ntle le go phutha**	**Tlwaelo ya go ya kwa ntlwaneng**	**Tirwana tsa phaposi tse di kaelwang ke morutabana (rulagantswe mo pholising) le kgang khutswe**	**Nako ya go ikhutsa**	**Nako ya go ya gae**

Beke 1	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana ya e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlagenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
Dintlha: • Go rutiwa ga serutwa go tlhotlhomisiwa ke nako e e abilweng mo lenaneong la letsatsi le letsatsi. • Lenaneo la letsatsi le letsatsi le a fetolwa fetolwa, sekao go ya kwa ntlwaneng ya boithomelo go ka fetolwa mo nakong e e abilweng, go ikaegile ka maemo a kwa sekolong • Bontsha dikarata tsekedimo tsa ditiro tsa tlwaelo fela fa o setse o di itsesitse. • Dintlha tsa tlhaloso ga di a kwalwa mo kolomong ka malatsi go ya ka tatelano mme fela di kwadilwe go ya ka diteng tsa serutwa. Ka ga moo, o ka itseela tshwetso gore o tlhoka go dira tirwana ka letsastsi lefe • Mo dibekeng tse dingwe go na le ditirwana tse di fetang tse tlhano. Se, se ne se netefatsa gore go na le ditirwana tse di lekaneng tse o ka tlhophang mo go tsona, ga go reye gore o tshwanetse o dire ditirwana tsotlhe.			
1.4 **Tlhalosa, bapisa, le rulaganya dipalo**	• Itsise nako ya go ya ntlwaneng boithomelo ka tlwaelo - Godisa temogo ya tatelano/ thulaganyo ya go ya ntlwaneng ya boithomelo sekao (dirisa ntlwana pele, o tswe o tlhape diatla, tswala tepe o tswe o iphimole diatla jalo jalo. - Godisa temogo ka ga palokemotatelano sekao Ntobeko ke wa ntlha, Tlotlo ke wa bobedi jalo jalo.	Sesepa, lesela la go tlhapa, ntlwana boithomelo, metsi a a elelang.	Morago ga o sena go itsise tlwaelo ya go ya kwa ntlwaneng, ditirwana e, e ka dirwa letsatsi le letsatsi.

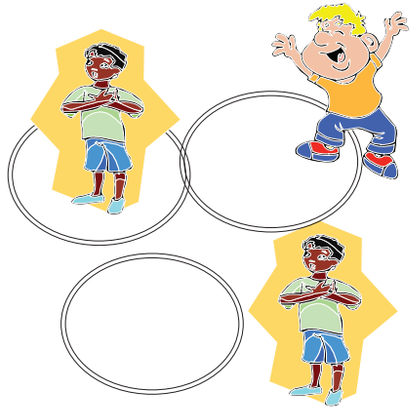
Beke 1 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana ya e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlagenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Didiriswa tsa tekanotlha-koretharo 3-D**	• Itsise karata tsekedimo ya go phutha - Tlhoma ditlhopha tse di dirang tse dinnye. - Tsweledisa thulaganyo le go tlhaola didiriswa. Aroganya palo ya barutwana mo phaposing ya gago ka mafelo a a robedi tsa go phutha. Setlhopha sengwe le sengwe se tshwanetse go tsaya maikarabelo a go phutha mafelo ka go fapafapaana mo bekeng.	Baakanya tšhata Tlhatswa ditshelo tsa pente le diborashe Phutha sekhutlwana sa dibuka Phutha diboloko Fiela mo fatshe Phutha sekhutlwana sa ntlo Phutha diphaesele Phutha ditafole tsa botsweretshi Phimola ditafole	Morago ga go itsise tlwaelo ya go phutha, tirwana e, e ka dirwa letsatsi le letsatsi

Beke 1 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana ya e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlagenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• Itsise karata tsekedimo ya mothusi le go dira thulaganyo go supetsa gore barutwana ba fiwa jang dilapodisi **Karata tsekedimo ya mothusi e dirisediwa go tlhopha mothusi wa letsatsi, yo o tla thusang kwa tafoleng ka nako ya dilapodisi** - Dirisa tšhate ya mothusi go tlhaola mothusi wa letsatsi o tlhokometse lenaneo la paka ya nako ya dilapolosi - Didiko tse tlhano mo karateng ya mothusi di emetse ditlhopha tse tlhano tse o kgaogantseng barutwana ka tsone sekao setlhopha se se khibidu, setlhopha se se botala jwa loapi, setlhopha se se serolwana, setlhopha mmala o tala le setlhopha sa mmala wa lamune. O ka dirisa maungo a a farologaneng, diphologolo, dipalangwa jj - Letshwao la morutwana mongwe le mongwe le bewa mo teng ga sediko sa setlhopha se a leng mo go sona - Go dikolosa motsu yo o kgomaretswang fa gare ga sediko sengwe le sengwe go tlhopa moeledipele wa setlhopha. Moeteledipele wa setlhopha o potologa letsatsi le letsatsi go netefatsa gore morutwana mongwe le mongwe o bona tshono ya go nna moeteledipele - Moeteledipele wa setlhopha o bala dipalo ya barutwana le dijana go ya ka palo ya barutwana ba ba leng teng mo setlhopheng sa gagwe ka letsatsi leo (nyalano ya nngwe-ka-nngwe)	**Tšhata thuso**  	Fa karata tsekedimo ya mothusi e itsesitswe, dilapodisi di newa barutwana letsatsi le letsatsi
3.3 **Dipopego tsa tekanotlha-korepedi 2-D**	**Letlelela morutwana yo mongwe le yo mongwe go tlhopha karata tsekedimo ya letšhwao la gagwe** - Baakanya boloko ya go supetsa ya botsweretshi jwa botlhamedi ya letshwao la ngwana mongwe le mongwe (setshwantsho) - Kgomaretsa letshwao mo khabotong ya morutwana yo mongwe le yo mongwe - Letlelela morutwana go tlhopha khaboto ya gagwe e e nyalanang le letshwao la gagwe - Kopelela leina la morutwana ka sepele mo diaparong tsa gagwe. - Barutwana ba tlhopha letshwao la gagwe le la tsala, ka go tshameka motshameko o ba rotloetsa barutwana go tlhopha dikarata tsekedimo tsa matshwao a a farologaneng sekao barutwana ba dula mo sedikong le morutabana ba supetsa matshwao le go botsa barutwana go tlhopha matshwao a bone. - Ditshwantsho tse dinnye tsa barutwana di ka nna tsa dirisiwa jaaka dikarata tsekedimo tsa matshwao, fa le teng • **Tsweletsa kgopolo ya gore barutwana ba nne mo setlhopheng se se tonna se le sengwe ka go itsise leina la phaposi sekao dirisa setshwantsho "sa bera"** Barutwana ba tshwanetse ba itse leina la morutabana wa bone	Dikarata tsekedimo ka matshwao a barutwana. Dira karata tsekedimo ya setshwano go tloga go letswao la setshwantsho. Dilokara, mabokoso kgotsa kgotsa dikgwakge mo leboteng di tshwailwe ka matshwao . Mophato wa R letshwao Setshwantsho sa leina mo mojakong la phaposi Kwala leina morutabana le sefane	JaakLetlelela barutwana go : fitlha letsatsi la ntlha.

Beke 1 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana ya e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlagenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
Dintlha: • Supetsa fela letshwao la morutwana/ setshwantsho sa kgwedi tse tharo tsa ntlha tsa ngwaga • Supetsa letshwao la morutwana/setshwantsho le leina la morutwana mo kgweding tse tharo tse di latelang • Supetsa fela leina la morutwana mo setshwaong mo dikgweding tse thataro tsa bofelo tsa ngwaga • Baya mo kgorong ngwaga otlhe • Tshwaya ka leina la morutabana • Tshwaya ka go kwala mophato R			

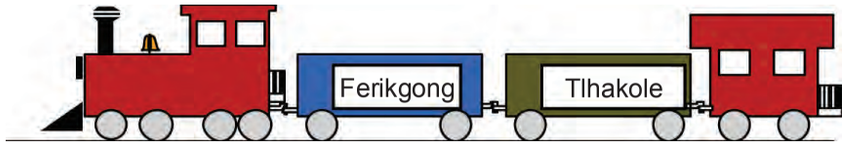
Beke 2 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana ya e le nngwe ya phapose e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	**Go bala letsatsi le letsatsi** • Go bala kwa godimo o boeletsa/ o bala o tlola tlola go tloga ka 1-5 • Opela dipina tsa dipalo le diraeme Le fa barutwana ba Mophato wa R ba sena kitso ka dipalo, ba tshwanetse go rotloediwa go opela dipina tsa dipalo le diraeme le go ballela kwa godimo ba boeletsa letsatsi le letsatsi	Dipalo ya dipina le diraeme	Letsatsi le letsatsi

Beke 2 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana ya e le nngwe ya phapose e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, bapisa, rulaganya dipalo**	**Itsise kgopolo ka ga botonna le bonnye** **Metshameko ya go dirisa mmele** - Barutwana ba itemogela kgopolo ka ga nnye le tonna ka go ikgona, ba itira bannye ka fa go kgonagalang ka teng, ba bo b a ikotlolola ka fa go kgonagalang ka teng - Letlelela barutwana go bapisa diatla a bone le diatla tsa ditsala tsa bone, go bona gore ke diatla tsa bomang di leng di tonna kgotsa a le dinnye. - Bapisa seatla sa morutabana go bapa le seatla sa morutwana. - Bapisa letsogo la morutabana go bapa le la morutwana. **Didiriswa tsa tekatekanyotlhakoretharo (3-D) o dirisa dikgonngwa** - Bopa dibolo tse ditonna le tse dinnye ka seloko ya go tshameka - Batla dibolo tse ditonna le didiriswa tse dinnye mo phaposing. Tshwaya didiriswa tse di tonna ka dikgomaretsi tse di khibidu, tse dinnye ka serolwana. Motlotlo ka ga bogolo jwa didiriswa tse di faologaneng. - Tlhaola didiriswa tse di tonna le tse dinnye go ya ka bogolo **Didiriswa tse di kgonngwang o dirisa dipopego tekatekanyotlhakore pedi (2-D) kgotsa ditshwantsho** Dirisa kgopolo ya botonna le bonnye ka nako ya ditirwana tsa botsweretshi ka - O lebelela ditshwantsho tse ditonna le didiriswa tse dinnye le go di segolola - Letlelela barutwana go gatisa diatla tsa bone le go di segolola. Baya letsogo le lengwe mo godimo ga le lengwe. Lebelela gore ke letsogo la ga mang le leng le tonna le leng le nnye - Kgaoganya pampiri gabedi - Kgomaretsa ditshwantsho tsotlhe tse dinnye mo letlhakoreng le lengwe la pampiri le tse dinnye mo letlhakoreng le lengwe.	Barutwana seloko sa go tshameka Didiriswa tse di tonna le tse dinnye Makasine, kuranta, phasalatso, sekere Pampiri ya A3, kerayone	Letsatsi 1

Beke 2 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana ya e le nngwe ya phapose e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	**Maemo a didiriswa tse pedi kgotsa tse dintsi di bapisitswe le morutwana- mo teng kgotsa kwa ntle** **Metshameko ya go dirisa mmele.** - Naya morutwana mongwe le mongwe “hula-hupu” (Morutabana o supetsa barutwana ka go dira le bone ka Motlotlo wa mafoko: kwa ntle le mo teng). Ba tlolela mo teng le kwa ntle ga hupu a letela ditaelo tsa morutabana - Ema ka leoto le le nosi mo teng ga hula-hupu, leoto le lengwe le le kwa ntle ga hula-hupu. - Tsaya lebokoso le go letlelela barutwana go tlolela mo teng le kwa ntle le go letlelela barutwana go buisana fa morutwana a le mo teng/kwa ntle - Tlolela kwa ntle le mo teng ga taere/leotwana jaaka tirwana ya karolo ya kgodiso ya mmele. - Tlolela mo teng le kwa ntle ga hula-hupu o tswetse matlho **Didiriswa tsa dikgonngwa tsa tekanotlhakoretharo (3-D)** Letlelela barutwana - Baya mpopisi mo teng le go e ntshetsa kwa ntle ga bolao jwa masea - Latlhela bolo/ kgetsana ya dinawa mo teng ga hula-hupu/leotwana - Dirisa mmu wa seloko o goloke,o papathe go bopa sentlhaga sa nonyane , o goloke gape go dira bolo e nnye (ekete mae)a tsenye mo sentlhageng o boe o a ntshe o latele ditaelo tsa morutwana. **Didiriswa o dirise dikgonngwa tsa dipopego tekanotlhakorepedi kgotsa ditshwantsho** Letlelela barutwana - Lebelela setshwantsho le go bona gore a ba kgona go bona didiriswa tse di supetsang kgopolo ya mo teng le kwa ntle - Barutwana ba itshwantshe ba le mo teng le kwa ntle ga hula-hupu/ bata jalo jalo	**Dihupu** 	Letsatsi 1

Beke 2 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana ya e le nngwe ya phapose e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Disiriswa tsa tekanotlhakoretharo 3-D**	**Tlhama didiriswa tsa godirisa/dimateriale tsa dikgonngwa** **Tlhotlhomisa dikgonego tse dintsi tsa go aga diboloko ka nako ya go tshamekela ka fa gare** • Karolo ya morutabana ke go gokaganya motshameko - Tlhotlhomisa dikgonego tsa go aga diboloko ka go kaela barutwana go aga serapalelo (rapaletseng), tsepameng (ditorio), tse kwa godimo le dikago tse di kwa tlase - Tlhaola le go rulaganya diboloko tse di farologaneng ka go bapisa dipopego - Tlhaola le go rulaganya diboloko tse di farologaneng ka go bapisa go ya ka bogolo jo bo tshwanang - Tlhaola diboloko go ya ka tse di tonna le tse dinnye - Morutwana mongwe le mongwe o newa boloko e e dipopegoseraro le go di rulaganya di le dintsi ka ditsela tse di kgonagalang sekao di beye mo moleng, di tlhatlhaganye ka ditsela tse di farologaneng. Barutwana ba ka bapisa le go kopolola diboloko tsa ba bangwe, go ba lemosa thata ka ga maemo. - Tsweletsa go phuthiwa ga diboloko go ya ka mokgwa o o neetsweng, kwa morago ga raka ba bapisa go ya ka mokgwa o o tshwanang	Diboloko di tshwanetse go bewa mo rakeng, go ya ka mokgwa o o neetsweng wa diboloko tse di farologaneng, kwa morago ga raka Didiriswa tse dinnye jaaka ditshamekisi tsa dikoloi, dipholoogolo tsa kwa polasing, matshwao a tsela jalo jalo di tshwanetse go nna teng	Letsatsi 1

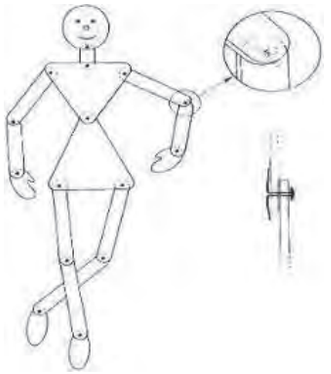
Beke 2 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana ya e le nngwe ya phapose e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1 **Didiriswa tsa tekanotlhakoretharo 3-D.** **3.3** **Dipopego tsa tekanotlhakoretharo 3-D**	**Tlhaola didiriswa go ya ka mmala wa poraemari, botala jwa loapi , khibidu le serolwane** Supetsa mmala o le mongwe ka nako. O seka wa golagana mmala o le mongwe le popego e le nngwe. Kgaoganya barutwana ka ditlhopha tse 5. Naya setlhopha se le sengwe mefuta e e farologaneng ya didiriswa tsa tekatekanyo tlhakoretharo (3-D) le dipopego tekanotlhakorepedi (2-D) tsa mebala. - Morutabana o itsise mmala mongwe le mongwe ka go tshwarela kwa godimo karata tsekedimo yam mala yo a batlang barutwana ba o itse. Sekao botala jwa loapi,boeletsa mmala mongwe le mongwe. - Letlelela barutwana go tlhaola didiriswa tsa tekatekanyotlhakoretharo (3-D) le dipopego tekatekanyotlhakor pedi (2-D) go ya ka dikarata tsekedimo tse di bontshiwang tse di farologaneng. **Metshameko ya go dirisa mmele** - Tlhokomela didiko tse di segolotsweng go tswa mo khatebotong tsa mebala mo sefubeng sa morutwana mongwe le mongwe - Letlelela barutwana go rulaganya ka bobone mebala e e farologaneng go ya ka mebala **Didiriswa tse di kgonngwang tsa tekano tlhakoretharo (3-D)** - Morutabana o bitsa barutwana ba le batlhano go tla kwa pele, o naya morutwana mongwe le mongwe sediriswa sa tekatekanyotlhakoretharo (3-D) go se tshwara. - Barutwana ba bangwe ba dula mo ditlhopheng tsa bone ka setlhopha sa didiriswa tsa tekatekanyotlhakoretharo (3-D), ba di baya fa gare ga ditafole - Morutwana wa ntlha fa pele o tshwara sediriswa sa gagwe sa tekatekanyotlhakore tharo (3-D) Sekao boloko e e botala jwa loapi kgotsa sediko se se serolwana sa Logi kgotsa diphasele jalo jalo - Barutwana mo tafoleng ba tlhaola didiriswa tse di farologaneng tsa tekatekanyo tharo (3-D) go ya ka se morutwana a se tshwereng. **Dikgonngwa tse di halofo o dirisa dipopego tsa tekano tlhakorepedi (2-D)** - Morutabana o baakanya pente ya menwana pele ga nako - Barutwana ba bapisa dipopego mo penteng ba dirisa menwana - Gatisa dipopego tsa tekatekanyotlhakkorepedi (2-D) o e tshase mmala	Didiriswa tse di farologaneng tsa tekatekanyo tharo le dipopego tsa tekatekanyo tlhakorepedi/ditshwantsho mo phaposing sekao dikhurumelo tsa dibotlolo, diboloko tsa lego, dipopego tsa mmala tsa logi jalo jalo Dikarata tsekedimo tsa mmala o botala jwa loapi, khibidu ke serolwana Dipopego tse di farologaneng tsa dipopego tsa tekanotlhakorepedi (2-D) le didiriswa tsa tekatekanyotlhakore tharo (3-D) Didiko tse di Khibidu, serolwana le botala jwa loapi di segolotswe go tswa mo khatebotong e e bakaantsweng ke morutabana Didiriswa tse di farologaneng tsa tekatekanyotlhakoretharo (3-D) tse di kgobokantsweng pele ga nako e beilwe mo magareng ga setlhopha sengwe le sengwe. **Resepe ya pente ya menwana** Kopi e le nngwe 1 ya bupi kopi e le nngwe 1 ya sukiri Marothodi a mararo 3 a a semmala a dijo/ pente e e lerole dikopi tse tlhano tsa metsi a a bedileng (fuduwa ka iketlo)	Letsatsi1

Beke 2	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana ya e le nngwe ya phapose e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.1 **Nako**	**Itsise karata tsekedimo ya malatsi a botsalo** - Akanyetsa (mokgabiso) karata tsekedimo ya malatsi a botsalo e e mebalabala sekao terana ka materoko a le 12 (letoroko lengwe le lengwe le kwadilwe kgwedi). Dikgwedi di latelana go tsa mo molemeng go ya kwa mojeng mo materokong. Baya leina le letshwao la morutwana mongwe le mongwe mo kgweding e e neetsweng. - Godisa temoso ya kgopolo ya nako sekao opela dikgwedi tsa ngwaga ka go opela maina a dikgwedi o ntse o supa maina a dikgwedi. - Godisa temoso ka ga buisa o dirisa dikaelo sekao supetsa setshwao sa kgwedi nngwe le nngwe, mo moleng o le mongwe go tswa mo molemeng go ya kwa mojeng - Letlelela barutwana ba supe letshwao/setshwantsho sa gagwe le go ithuta ka tlhogo gore matsalo a gagwe ke kgwedi efe - Ba rotloetse b go itse dingwaga tsa bone - Boeletsa tirwana e ka tsweletso Karata tsekedimo ya malatsi a botsalo e nne le dikgwedi tse somepedi di bontshitswe go tswa mo molemeng go ya kwa mojeng Korone kgotsa setshwantsho sa kuku ya matsalo se supetsa malatsi a matsalo. Malatsi a matsalo a a tlang ga a na korone kgotsa kuku ya matsalo. *Pina: tlhama pina ya gago* *"Ferikgong, Tlhakole, Mopitlwe* *Moranang, Motsheganong, Seetebosigo* Phukwi, Phatwe, Lwetse,Diphalane,Ngwanatsele,Sedimonthole Ngwaga otlhe fa go na le malatsi a matsalo. 		

Dintlha:

- Motlha wa letsatsi la matsalo la morutwana le kgethegile, nako e beelwe kwa thoko mo barutwana botlhe mo phaposing ba opelang "O gole gole ",ba ope diatla gantsi ba supetsa dingwaga tsa matsalo tsa basimane/basetsana
- Morutwana yo mongwe le yo mongwe mo phaposing a tshwantshe setshwantsho le morutabana a kopanye ditshwantsho tsotlhe tsa ngwana yo o ketekang letsatsi la gagwe la matsalo go dira buka ya letsatsi la matsalo
- Morutabana a ka dira korone ya mosimane kgotsa mosetsana yo o ketekang letsatsi la matsalo, barutwana ba ka nna ba e kgabise ka didiriswa go dira kholaje.
- Tirwana e tla boeletswang ngwaga otlhe fela fa na le letsatsi la matsalo

Beke 3 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlanegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	Fopholetsa ke go bala didiriswa letsatsi le letsatsi ka botshepegi • Go bala o Motlotlo letsatsi le letsatsi - O balela kwa godimo o ipoeletsa/ka moretheto go tloga ka 1-5 - Opela pina ya dipalo le diraeme Letlelela barutwana go:simolola mophato R ba sena kgopolo palo ya dipalo, ba tshwanetse go rotloediwa go opela dipina tsa dipalo le dipina tse ba balang ba opela ba ipoeletsa letsatsi le letsatsi.	Dipina tsa dipalo le diraeme	Letsatsi le letsatsi
	Supa le bala dikarolo tse di farologaneng tsa mmele Balela kwa godimo o ipoeletsa go tloga ka 1-5 **Metshameko ya go dirisa mmele (Tsenyeletsa serutwa sa dikgono tsa botshelo)** - Godisa temoso ya dipalo ya dikarolo tse di farologaneng tsa mmele ka go di bala. - Ntshupetsa nko ya gago o bale. O na le dinko di le kae?.Ntshupetsa ditsebe tsa gago o di bale. O na le ditsebe se kae. A di oketsegile ka nngwe. A re di bale. - Ntshupetsa diatla a gago. O na le diatla a le kae? A re a bale. O bona eng gape mo diatlang a gago. Menwana! A o ka a bala? A re bale menwana mo letsogong le lengwe 1,2,3,4,5 - O na le matlho a le kae? Bala ditsebe le matlho a gago. Tshwara ditsebe le matlho a gago fa o bala, simolola ka ditsebe. - Dula o lebagane le tsala le go bala dikarolo tsa mmele wa gagwe mme fela o di tshware, o di bale. Morutabana a kaetse barutwana sekao tshwara tsebe e le nngwe ya tsala ya gago, tshwara tsebe nngwe ya gagwe, di bale, 1,2. A di tshwana le tsa gago? Tswelela ka tirwana e. - Supa dikarolo tsa mmele tse motho a nang le karolo e le nngwe mo mmeleng sekao nko e le nngwe, molomo o le mongwe, seledu se le sengwe jalo jalo **Dirisa dikgonngwa tse di halofo tsa dipopego tekatekanyopedi (2-D) kgotsa ditshwatsho** Letlelela barutwana go - Lebelela mo seiponeng e le go gatisa/ go iBapisa - Thala mebele ya bone mo kuranteng le go ikgabisa.Thala mola ka bogare - Segolola ditshwantsho tsa dikarolo tse di farologaneng tsa mmele go tswa mo makasineng kgotsa mo phasalatsong le go feleletsa sefatlhego - Segolola sefatlhego go tswa mo makasineng le go bapisa dikarolo tsotlhe tsa mmele.	Pina e opelwang o dira diragatsa/raeme Malea a metshameko e e emelang batho ba ba farologaneng le ditshwntsho tsa mmele. Metshameko ya dikarata tsekedimo Barutwana Boleele jwa seipone Pampiri ya A4, dikerayone Makasine, diphasalatso,pampiri kitsiso, sekere	Letsatsi 1

Beke 3 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.4. **Tekano**	**Lemoga mola wa tekano mo go bona** **Godisa temogo gore mmele wa motho o na le matlhakore a mabedi** **Metshameko ya go dirisa mmele** Gatelala kgopolo ka ga "letlhakore le lengwe/ le letlhakore le lengwe". Morutabana o Motlotlo le barutwana ka ga bopele jwa mmele le bomorago jwa mmele, ga mmogo le bogodimo jwa mmele, le bokwatlase jwa mmele. **Letlelela barutwana:** - Ba itebelele mo seiponeng se ba kgonang go bona mebele ya bone yotlhe - Supa gore ke dikarolo dife tsa mmele tse di leng mo matlhakoreng a mabedi a mmele wa gago - Ama dikarolo tsa mmele jaaka go kopiwa sekao "ama menwana ya gago ya maoto, ama maoto a gago. Barutwana ba ka dira se, ba tswetse matlho - Ama nngwe ya dikarolo tsa gago tsa mmele ka karolo e nngwe ya mmele sekao "ama lengwele la gago ka nko ya gago jalo jalo (ke tirwana ya mola kgabaganyo)	Barutwana  Boleele jwa seipone Morutabana a ka dira setshwano se se kopantsweng ka diphini se se dirilweng ka khateboto e e thata	Letsatsi 1
3.2 **Disiriswa tsa tekanotlhakore-tharo 3-D**	**Lemoga, supa le go naya maina a dibolo** - Barutwana ba tshameka ka dibolo le go supetsa le go bolela dilo tse o ka di dirang ka bolo. Morutabana o etelela puisano ka go botsa dipotso. - Supa didiriswa tse tsotlhe tse di ka kgokologang sekao bontsha barutwana diboloko o ba botse gore potso "Fa o nagana a boloko e kgona go kgokologa? A re bone" - Kgokolosa didiriswa le go lebelela gore di kgokologa jang sekao dithini di kgologa mo letlhakoreng le lengwe. - Dirisa seloko ya go tshameka go bopa bolo e e kgokologang ka nako ditirwana tsa boitlhamedi (ka nako ya motshameko o o gololosegileng mo teng ga phaposi) - Ka nako ya go tshameka, barutwana ba ka nna ba leka go pitikolola mebele ya bone ba robetse fa fatshe kgotsa go kgokolosa mebele ya bone jaaka dibolo.	Didiriswa tse di kgolokwe sekao dinamune, diapole, dibolo, dithini tse di lolea. (Dira dibolo ka didiriswa tse di latlhilweng sekao kuranta e e golokilweng jaaka bolo e tsentswe mo pentihose) Didiriswa tse di khutlo-nne sekao diboloko Resepe e e tshamekang: Kopi e le 1 ya bupi Kopi e halofo ya letswai Kopi e 1 ya metsi Dintsho tse 2 tsa oli ya go apaya Maronthotho a mannye a mmala Tlhakanya dilo tse di neetsweng tsotlhe	Letsatsi 1 **Tlhakanya ditswaki tsotlhe**

Beke 3 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa tekanotlhakorepedi 2-D**	**Lemoga, tlhaola, le go neela leina dipopego mo phaposing le ditshwantsho tsa tekonotlhakorepedi** • **Itsise ka ga sediko** Didiriswa tse o di dirisang go itsise barutwana ga ntlha ka ga sediko di tshwanetse go tshwana ka ditsela tsotlhe (bogolo jo bo tshwanang, mmala yo o tshwanang,phopholetso e e tshwanang) **Metshameko ya go dirisa mmele** Morutabana o thala sediko mo fatshe. Letlelela barutwana go tsamaya mo thadisong ya sediko fa o ntse o Motlotlo “ke tsamaya mo mothalong wa sediko…..ke a potologa” Letlelela barutwana: - Tshwaraganyang ka diatla le dire sediko - Kago ya sediko ka mmele ya bone. - Tsamao mo sedikong go opelwa pina ya “Mulbery bush” - Dula fa fatshe mo sedikong lo neeletsane sediriswa ba ntse ba opela “hot potato pass it on”. Morutwana yo o santseng a tshwere sediriswa fa pina e didimala, o tshwanetse go tsamaya a dule mo gare ga sediko.	Pina, “Fa re dikologa sekgwana sa Mulberry”. Motshameko, ‘hot potato, pass it on”.” Letapole le le fisang le fetise”	Letsatsi 1
	Dirisa didiriswa tse di kgonngwang tsa tekanotharo (3-D) Morutabana o supetsa morutwana hula-hupu le go ba tlhalosetsa gore popego ya hula-hupu ke ya sediko. Sediko ga sena dikhutlo. Letlelela barutwana - Tshwara tekanotlhakoretharo o ntse o tshwara ka sediko ka menwana. - Batla tekanyotlhakoretharo mo phaposing tsa popego e e tshwanang le sediko **Tlhaola le go Bapisa didiriswa** Morutabana o neela barutwana didiriswa tse di farologaneng tsa tekanotlhakoretharo (3-D) le dipopego tekatekanyo tlhakorepedi (2-D) ka bogolo jo bo farologaneng (tonna le nnye) le mmala (khibidu, serolwana le botala jwa loapi) jaaka bolo ya tenese, dimabole, dibauni jalo jalo Letlelela barutwana go: - Tlhaola didiriswa go ya ka botonna le bonnye - Kgobokanya didiriswa go ya ka mebala	Hula- hupu Didiriswa tsa tekanotlhakoretharo (3-D) tse di kgolokwe farologaneng jaaka bolo ya tense, dimabole le dibaluni jalo jalo. Dipopego tekanotlhakorepedi (2-D) jaaka didiko tsa polasitiki tse di segeletsweng.	Letsatsi 1

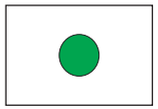
Beke 3	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.1 **Nako** **Maemo a bosa le khalentara**	• **Itsise barutwana ka karata tsekedimo ya maemo a bosa** - Maemo a bosa a emela beke (malatsi a le matlhano) a dirisa dikarata tsekedimo tsa matšhwao sekao malatsi a le matlhano a rulagantswe go tswa kwa molemeng go ya kwa mojeng o dirisa matšhwao a maemo a bosa (lebelela sekao se se kwa tlase) - Maemo a bosa a tshwanetse go rutiwa letsatsi le letsatsi - Morutabana o kaela barutwana go tlhomamisa letsatsi, letlha le kgwedi ka go dirisa dikarata tsekedimo jaaka lenaneo (mo nakong e e latelang barutwana ba ka nna ba supa le go supetsa dikarata tsekedimo ka bobone) - Moeteledipele wa letsatsi o lebelela maemo a bosa kwa ntle le go bolela diphitlhelelo le setlhopha sotlhe sekao pula e a na, go maru, go letsatsi. - Morutabana o supetsa barutwana diphitlhelelo mo karateng jaaka mo lenaneong (mo nakong e e latelang Letlelela barutwana go : bontshe dikarata tsekedimo ka bobone) - Ka go dira se, barutwana ba ithuta ka bobone malatsi a beke le mafelo a beke. - Ba ithuta ka ga gompieno, maabane, ka moso jalo jalo - Barutwana be newa ditšhono tse dintsi go bala go fitlha ka 5.Ba bala malatsi a go leng letsatsi, malatsi a go leng tsididi, malatsi a go leng diphefo jalo jalo - Supetsa letšhwao la morutwana fa go na le malatsi a matsalo mo bekeng. - Supetsa ditirwana tse di diragalang mo bekeng sekao go ya kwa serapeng sa diphologolo(setshwantsho sa phologolo se dirisiwe)	Karata tsekedimo tsa pontsho ya maemo a bosa e tshwanetse go emela beke sekao malatsi a beke a rulaganngwe go tswa mo molemeng go ya kwa mojeng, ba rulaganye dikgwedi tsa ntlha tse 6, di rutiwe letsatsi le letsatsi Malatsi a supa a beke - Dipalo 1-31 - Maina a dikgwedi tsa ngwaga tse 12 - Ngwaga sekao 2012 - Dikarata tsekedimo di supetsa maemo a bosa sekao  Go diphefo  Go letsatsi  Pula e a na  Go maru	Morago ga gore karata tsekedimo ya a maemo a bosa a sena go itsisiwe Tirwana e nna ya letsatsi le letsatsi. Ruta barutwana pina ya malatsi a beke e ba tla e tshwarelelang ka tlhogo

Beke 3	**Nako e e tshitshintsweng ya go ruta**		
Kitsiso	**Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
Sekao sa karata tsekedimo ya bosa	**Karata tsekedimo ya maemo a bosa** Seetebosigo 2012 Latshipi: 12 — Mosupologo: 13 — Labobedi: 14 — Laboraro: 15 — Labotlhano: 16 — Labotlhano: 17 — Lamatlhatso: 18 		
Tatelano ya ditiragalo tse di ipoeletsang mo matshelong a bone	Poelelo ya tatelano ya ditiragalo tsa botshelo jwa gago jwa letsatsi le letsatsi Malatsi a beke Morutabana o ruta barutwana pina kgotsa raeme ka ga malatsi a beke. Boeletsa karata tsekedimo ya maemo a bosa letsatsi le letsatsi jaaka go buisanwe. *Pina:* *"Go malatsi a supag, go malatsi a supa mo bekeng, go malatsi a supa mo bekeng.* *"Sontaga, Mantaga, Lwabobedi, Lwaboraro, Lwabone, Lwabotlhano, Lwamatlhatso." (x2)*	Pina: Malatsi a beke kgotsa tlhama pina ya gago ka malatsi a beke.	
4.1 **Nako**	• **Itsise karata tsekedimo e e bontsha ditlha tse nne, o bontsha ka motsu:** - Setlha se re leng mo go sone - Ke setlha sefe se se fetileng le - Setlha se se latelang? - Supetsa setshwantsho sa setlha se re leng mo go sone o golaganye le kgwedi e e maleba. Sekao o ka supetsa setshwantsho sa setlha sa selemo, Ferikgong go fitlha ka Mopitlwe	Dikarata tsekedimo tse nne tse di farologaneng ka setshwantsho sa nngwe ya ditlha mo go sona **Setlha**  Selemo Letlhabula Dikgakologo Mariga	lepalepanya fa ditlha di fetoga

Dintlha:

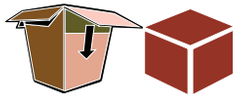
Dikgopolo tsotlhe tse dintšhwa di tshwanetse go tlhagisiwa go ya ka dikgato tse di latelang:

- Kgato ya Metshameko ya go dirisa mmele (itemogele dikgopolo tse ka go dirisa mmele le go dirisa dirwe tsa kutlo
- Kgato ya didriswa tse di kgonngwang (dirisa didiriswa tsa tekatekanotlhakoretharo (3-D)
- Didiriswa tsa dikgonngwa tse di halofo (tshwantshiso ya tekanotlhakoretharo 3-D mo letlhare la pampiri sekao ditshwantsho, go bapisa ditshwantsho, metshameko ya dikarata tsekedimo jalo jalo) Dipopego tsotlhe tse di sephaphathi ke didiriswa tsa tekanotlhakorepedi.

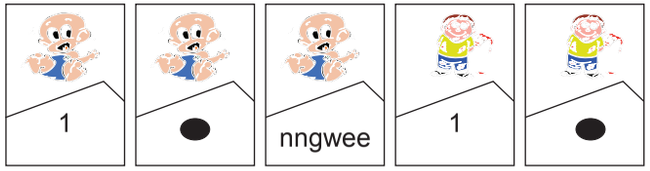
Beke 4	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	**Tlhaola le go tlhalosa dipalotlalo** **Itsise bokao jwa dipalo ya 1** O balela kwa godimo o boeletsa go tloga ka 1-5 **Metshameko ya go dirisa mmele** Letlelela barutwana - Supa dikarolo tsa mmele sekao nko e le nngwe - Nota tlhogo ganngwe,go itaya ka leoto ganngwe, tlola ganngwe jalo jalo. - Tsholetsa monwana o le 1, letsogo le le 1, leoto le le 1 jalo jalo - Bopa dipalo 1 ka mmele ya bone - Kwala dipalo 1 mo moyeng /le fa fatshe - Opa diatla ganngwe	Dipalo ya dipina le diraeme Barutwana	Letsatsi 1
	Didiriswa tse di dikgonngwang tsa tekanotlhakoretharo (3-D) Letlelela barutwana - Supa sediriswa se sengwe mo phaposing sekao boloko e le nngwe ya go aga - Bopa dipalo ya 1 ka seloko ya go tshameka	Didiriswa tse di mo phaposing le mo tikologong	
	Dirisa dipopego tsa tekanotlhakorepedi go ruta ka ga dikgonngwa tse di halofo Letlelela barutwana go - Supa setshwantsho sa sediriswa se le sengwe mo karateng tse di farologaneng - Bapisa dikarata tsekedimo tsa ditshwantsho le sediriswa se le sengwe go karata tsekedimo ya lerontho le lengwe mo go yona - Ka gale gokaganya dikarata tsekedimo tsa setshwantsho le dikarata tsekedimo tsa tsa dipalo tsa marontho a a tshwanang le dibadisi sekao tlhatlhaganya dipalo e e tshwanang ya Dibadisi mo godimo ga lerontho lengwe le lengwe - Fa o sena go itsise dipalo 1, morutabana o supetsa karata tsekedimo ka go e baya mo leboteng mo barutwana ba tla e boneng teng letsatsi le letsatsi	**Setshwantsho sa sediriswa se le sengwe**  Padisi e le nngwe ya morutwana mongwe le mongwe. Dikarata tsekedimo tse di farologaneng tsa ditshwantsho. Karata tsekedimo ya marontho	

Beke 4 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1 **Dipaterone tsa Jeometeri**	• **Supa dipaterone mo tikologong le mo diaparong tsa barutwana** Letlelela barutwana - Buisana le barutwana ka dipaterone tse ba di boneng mo tikologong le diaparo tsa bone: - Ke dipaterone tsefe tse di nang le mela? - A dipaterone tsotlhe di a tshwana.pharologanyo ke eng le gore di tshwana ka eng? - Ke eng se se dirang paterone? - Paterone e ya ipoeletsa-mela/diboloko/dipopego **Kopolola le go atolosa dipaterone** **Metshameko ya go dirisa mmele** Morutabana o golegela ribono e e khibidu le e e bududu mo diatlang Letlelela barutwana go : le banne. O bopa paterone ka go baya morutwana wa ribono e e khibidu mo pele ga morutwana wa ribono e e bududu, wa ribono e ekhibidu a letelwa ke wa ribono e e botala jwa loapi. Letlelela barutwana go feleletsa paterone	 Diribono tse di khibidu le tse di bududu	Letsatsi 1
	Dirisa dipopego tekanotlhakoretharo (3-D) go ruta ka ga dikgonngwa tse di bonagalang - Morutabana o thaya paterone ka dikhurumelo tse 3 tse di bududu le tse khibidu tse 3 - Letlelela barutwana go kopolola paterone	Dikhurumelo tse di khibidu le tse di bududu di newa morutwana mongwe le mongwe	

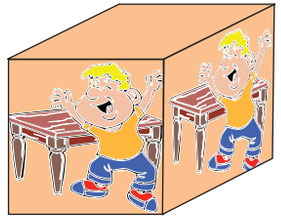
Beke 4	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Ditekanotlha-koretharo (3-D)** **3.3** **le dipopego tekanotlhakore-pedi (2-D) mo phaposing le ditshwantsho**	**Tlhaola dipaterone mo tikologong le mo diaparong tsa barutwana** **Godisa bokgoni go farologanya fa gare ga didiriswa "thanolopepele le thanolo morago"** **Dirisa dikgonngwa tse di bonagalang go ruta ka ga dipopego tekanyotlhakoretharo** **Morutabana o baya didiriswa tse di farologaneng mo phaposing le kwa ntle mo patlelong** Letlelela barutwana - Supa didiriswa tse di farologaneng mo phaposing sekao didiriswa tsa legong, ddidiriswa tse dikhibidu, didiriswa tsa polasitiki - Batla didiriswa tse di riling mo phaposing ka go latela dikaelo tsa morutabana sekao bolo mo setshelong sa diboloko tsa Lego, koloi ya go tshameka mo teng ga khaboto,pensele mo teng ga thini jalo jalo - Batla didiriswa tse di tshwanang sekao ditalama tse di kgolokwe mo gare ga tse dikhutlonne,mabole o mohibidu mo gare ga dimabole tsa mebalabala jalo jalo - Tlhaola sediriswa go ya ka mofuta wa sone sekao mmala, bogwasipa kgotsa popego - Tshameka motshameko "Setlhodi ka leitlho le le lengwe, selo sengwe se se kgolokwe....." - Batla didiriswa tse di rileng mo tikologong o latela ditaelo tsa morutabana sekao nonyane mo setlhareng, ribono mo setlhareng, tšheshe e e ntle, tshoswane e tsamaya mo letlhareng jalo jalo - Kwa gae barutwana ba rotloediwe go tlosa dintsho tsotlhe, kgotsa dithipa kgotsa diforotlho go tswa mo laeng	Didiriswa tse di farologaneng mo phaposing le mo tikologong .	Letsatsi 1
	Dirisa dikgonngwa tse di halofo kgotsa ditshwantsho go ruta ka dipopego tekanotlhakorepedi (2-D) Examples: supetsa barutwana setshwantsho le go ba botsa dipotso tse di lebaganeng go setshwantsho - "Mosetsana o tshwere eng mo letsogong" - Go na le batho ba le ba kae mo sekepeng? jalo jalo - Aga malea le go tshameka ditomino tsa ditshwantsho di siametse go godisa barutwana mo ponong ya setshwantsho fa fatshe.	Setshwantsho sengwe le sengwe go buisana (phousetara) **Malea** 	

Beke 4	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Didiriswa tsa tekanotlhakore-tharo 3-D** Tlhalosa, tlhaola le go bapisa didiriswa tsa tekanotlha-koretharo(3-D) le dipopego tsa tekanotlha-korepedi (2-D)	**Utolola dipopego le bogolo jwa mabokoso** **Metshameko ya go dirisa mmele** Letlelela barutwana - Palama mo teng le kwa ntle ga lebokoso le le tonna - Batlisisa se se mo teng ga lebokoso ka motlotlo ka ga se ba se bonang mo teng ga leboko sekao lebokoso le na le bokwa tlase, e na le matlhakore a le mane le sekhurumelo - Bula lebokoso go lebelela popego **Dirisa dikgonngwa tse di kgonngwang go ruta ka ga tekanotlhakoretharo** - Dirisa mabokoso go aga dipopego sekao ntlo, garaje (dirisa ka nako ya botsweretsi jwa pono(visual arts) go aga o dirisa mabokoso a a farologaneng ka bogolo - Neela barutwana ka didiriswa tse di farologaneng jaaka ditalama, diboloko, dikhurumelo tsa mabotlolo jalo jalo. Letlelela barutwana - Go tlhaola didiriswa ka ditlhopha tsa mefuta e e tshwanang - Batlisisa gore dipharologanyo ke eng magareng ga didiriswa - Batlisisa gore didiriswa dife tse di khutlonne le tse di kgolokwe - Tlhaola didiriswa go ya ka mmala o o tshwanang.	 Mabokoso a a farologaneng a matonna le a mannye (setsidifatsi se se lolea le setofo se se dirilweng ka lebokoso  diboloko, dikhurumelo, ditswalo tsa dipolasitiki tsa borotho(l barutwana ba ka tla le tsone go tswa gae)	Letsatsi 1

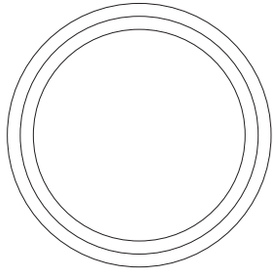
Beke 4	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tekanotlhakore-pedi (2-D)**	**Lemoga, tlhaola le go neela maina a dipopegotsa tekanotlhakorepedi (2-D) mo phaposing kgotsa ditshwantsho** **Itsise ka ga Khutlotharo** Fa o itsise barutwana lwa ntlha ka ga khutlotharo, didiriswa tse o di dirisang di tshwanetse go tshwana letsatsi le letsatsi (bogolo jo bo tshwanang, mmala o o tshwanang le phopholego e e tshwanang Khutlotharo e na le matlhakore a le mararo a a tlhamaletseng) Se, se bidiwa khutlotharo **Metshameko ya go dirisa mmele** Letlelela barutwana go: - Dira/bopa dipopego ka mebele ya bone sekao barutwana ba bopa khutlotharo ba mebele ya bone - Ba bopa khutlotharo ba dirisa menwana ya bone. - Ba dira/bopa khutlotharo ka go dirisa manatwana a wulu kgotsa seloko e e tshamekang. - Tsamaya mo godimo ga thadiso ya popego ya khutlotharo. Fa ba ntse ba tsamaya ba bue ba re “Ke tsamaya mo godimo ga thadiso ya matlhakore a khutlotharo nngwe, pedi, tharo kgotsa dikhutlwana nngwe, pedi, tharo (sekhutlo) - Phopholetsa dipopego. Dirisa dipopego tse dikgolo kgotsa o tsenye dipopego tse di farologaneng mo kgetsing e o kgonang go e phopholetsa. Morutwana o phopholetsa popego mo kgetsing le go bapisa le setse ya dikarata tsekedimo tse di maleba (dikarata tsekedimo di na le dipopego di tshwantshitswe mo go tsone.) - Thala popego ya khutlonne mo moyeng, mo fatshe, ka tshoko, mo bofelong o dirise pampiri **Tlhalosa, tlhaola le go bapiso dipopego tsa tekanotlhakoretharo (3-D)** **Dirisa dikgonngwa tse di kgonngwang go ruta ka ga tekanotlhakoretharo** Letlelela barutwana go - Tlhaola dipopego tsa dikotana go ya ka popego (sediko le khutlotharo) bogolo (tonna le nnye) le mmala (khibidu, serolwana, botala jwa legodimo) - Lebelela dipopego tsa khutlotharo mo phaposing le mo tikologong.	Motshameko wa dikarata tsekedimo go godisa temogo ya dipopego Wulu kgotsa seloko sa go tshameka “Kgetsana e e phopholediwang (dirisa kgetsana ya lapa ka rekere kwa godimo) ka dipopego tse di farologaneng tsa thuto ya tekatekanyo (thutatekano) Bapisa sete ya dikarata tsekedimo e e tshwantshitsweng dipopego mo go tsone Pampiri ya A4 le dikerayone Dipopego tsa dikotana (Logi) Dipopego mo phaposing le mo tikologong	Letsatsi 1
Tlhalosa, tlhaola le go apisa didiriswa tekanotlhakoretharo (3-D) le dipopego tekanotlhakore-pedi (2-D)			

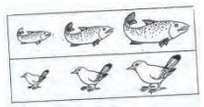
Beke 5	**Nako e e tshitshintsweng :** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana ka beke (mosako) ya ± 30 metsotso (± 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Nako e e lekanyeditsweng**
1.1 **Bala didiriswa**	**Tlhalosa le go tlhopha dipalotlalo** **Gatelela kitso e e a e boneng mo dibekeng tse 4 tse di akaretsang dipalo ya 1** **Ka molomo:Go Bala letsatsi poeletso go tswa mo go 1 go fitlha ka 5** **Metshameko ya go dirisa mmele** A barutwana: - Ba dira dira selotsopetso s k ba opa diatla gangwe. - Morutabana o supetsa papetlana e e supetsang dipalo 1 mme barutwana ba tsholetsa monwana o le 1, seatla se 1, leoto le le 1 jj.	Dipina tsa dipalo le diraeme Setshwantsho sa sediriswa se le sengwe ● 1 nngwe	Letsatsi 1
	Didiriswa tsa tlhakoretharo tse di kgonngwang **A barutwana:** - Bona sediriswa se le sengwe mo phaposing. - Bala sebadisi se le sengwe.	Sediriswa se le sengwe Sebadisi se le sengwe	
	Dirisa didiriswa tse dikgonngwang tsa popegotekatekano tlhakorepedi kgotsa setshwantsho - Bapisa mofuta wa setshwantsho se le sengwe, le karata ya tsekedimo e le nngwe ka lerontho. - Bapisa mofuta wa setshwantsho se le sengwe ka papetlana pontsho ya letshwao palo e le 1. - Bapisa letshwao la palo le karata shekedimo ya leinapalo . - Dira dipalo tsa phasele mme o letlele barutwana go di bapisa sekao. 	Mefuta ya dipapetlana ka setshwantsho se le sengwe, le kolwana e le nngwe mo go tsonaA variety of flash cards with one picture, and one dot on them. Papetlana e e nang le letshwaopalo le leinapatloFlash card with number symbol and number name Setshwantsho sa sediriswa se le sengwe ● 1 nngwe	

Beke 5	**Nako e e tshitshintsweng :** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana ka beke (mosako) ya ± 30 metsotso (± 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Nako e e lekanyeditsweng**
3.4 **Lemoga molatekatekano**	**Gatelela temogo ya gore mmele wa motho o na le matlhakore a le mabedi sekao "letlhakore le lengwe le letlhakore le lengwe le le yang ko" mojeng" le molema "** **Metshameko ya go dirisa mmele** Morutabana o tlhalosa matlhakore a mabedi a mmele. Letlelela barutwana go : - Ema ka leoto le lengwe mme gape ba eme ka leoto le lengwe.. - Tsamaela kwa modumong o o tsamaelanang wa setsikenyegi go ya kwa letlhakoreng la phaposi. Fa motshikenyego o ema, barutwana bay a kwa letlhakoreng la phaposing. Dirisa didiriswa tse dikgonngwang tsa popegotekatekano tlhakorepedi kgotsa setshwantsho **Dirisa dikgonngwa tsa tekatekanotlhakoretharo 3-D le didiriswa** **Morutwana mongwe le mongwe o fiwa kgetsi ya dinawa :**. **Letlelela barutwana go :** - Ba beye dikgetsi tsa dinawa mo fatshe mo thoko ga bona. - Isa kgetsi ya dinawa go ya kwa letlhakoreng la mmele wa bona ba dirisa menwana ya maoto, diatla jj. - Baya kgetsi ya dinawa mo fatshe mo letlhakoreng la mmele mme o tsamaisetse kwa letlhakoreng le lengwe. - Gatelela kakanyo ka go e lomaganya botsweretshi jwa pono ka go letlelela barutwana go dira ditshwantsho tsa serurubele. (Mena pampiri ka bogare;tshela lerontho la pente mo letlhareng la pampiri;menaganya pampiri ka bogare mme o gase pente mo setshwantshong, bula le go lebelela serurubele; kgaola mola o o kgaoganyang – serurubele se na le matlhakore a mabedi a a tshwanang)	Setsikinyegi se ka itirelwa mo gae – setshelo se se nang le sekhurumelo se tladitswe ka majwana. Morutwana yo mongwe le yo mongwe Kgetsana ya dinawa	Letsatsi 1
3.2 **Didiriswa tsa Te-kanotlhakoretharo** **3-D**	**Itsise le go utulola dilo tse di kgonang go kgokologa** - Buisana ka ga bokgolokwe jwa didiriswa. Baya didiriswa tse dikgolokwe mo teng ga kgetsana ya lesela (kgetsana ya lesela). Barutwana ba tsaya sediriswa go tswa mo go yona mme ba tlhalose bokgolokwe jwa teng. - Barutwana ba supetsa ka mokgwa didiriswa di pitikang ka thulamo go tsholetswa ditafole ka ditena tse pedi.L	"Kgetsana ya masela" (Kgetsana ya masela ka rekere mo godimo) Mo kgetsaneng go na le: Bogolo jo bo farologaneng, mabole, silindara, dithini tsa senotsididi e e senang sepe , dipopego tse dikgolokwe tsa polasitiki kgotsa dikhurumelo tsa mabotlole tsa popego ya polasitiki	Letsatsi 1

Beke 5	**Nako e e tshitshintsweng :** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana ka beke (mosako) ya ± 30 metsotso (± 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Nako e e lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	**Maemo a didiriswa mo go pedi kgotsa go feta mapapi le morutwana** - Pele ga / morago ga **Metshameko ya go dirisa mmele:** Morutabana o tlhopha barutwana ba babedi go bala ka raemeng: - Baya ditulo tse pedi mo pele ga phaposi.. - Barutwana ba le babedi ba supetsa kakanyo ya pele ga le morago ga go ya ka ditaelo tsa morutabana sk. o Dimpho ema fa pele ga setilo o Lebo ema mo morago ga setilo - Fa ba setse ba kgonne morutabana o tsholetsa papetlana mme barutwana ba bontshe se se diragadiwang ba dirisa ditulo tsa bona - ”Se se kanna sa bontshiwa go dirisiwLetlelela barutwana go: le bararo. o Tshepang o eme mo morago ga Reo mme Khumo o eme fa pele ga Tshepang . - Morutabana o neela barutwana letaese le legolo le le nang le ditshwantsho tse di farologaneng tse di tlhalosang “mo pele ga le mo marago ”di kwadilwe mo matlhakoreng sk.ema mo pele ga mongwe wa moriri o motele, ema mo morago ga motho o o apereng borukgwe; dula mo morago wa o mongwe jj - Letlelela barutwana go tshameka motshameko ka ditlhopha ka go latlhela letaese le go diragatsa ka moo e weleng teng,	Ditulo Barutwana Dipapetlana ka tiragatso ya pele le morago  	Letsatsi 1

Beke 5	Nako e e tshitshintsweng : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana ka beke (mosako) ya ± 30 metsotso (± 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Nako e e lekanyeditsweng**
3.2 **Didiriswa tsa Tekano-tlhakoretharo (3-D)**	**Ka didiriswa tse pedi tse o di filweng bapisa gore ke efe e tonna le e nnye** **Metshameko ya go dirisa mmele** Letlelela barutwana go: - Godisa mmele wa bona go nna motonna ka go phutholola diatla a bona mo godimo ga ditlhogo tsa bona. - A ba dire mmele ya bona mennye ka gokobega le go ikhutuganya. - Tlhomamisa gore a ntswa e tonna go peba **Tiriso ya didiriswa tsa tlhakoretharo tse di kgonngwang** Ka gale tlhagisa bonnye didiriswa tse pedi mo go bapisanyeng **.** - Bapisa bogolo jo bo farologaneng jwa mefuta e e tshwanang ya diboloko, dibolo, dipolaiti, ditalama, tafole, ditulo jj le go tlhomamisa gore ke didiriswa tse feng tse di “ditonna/nnye” le “bogolo le bonnye”. - Aga meago ka diboloko mme barutwana ba tshwantshe gore ke mang moago wa gagwe o leng mogolo le o monnnye. **Tekanotlhakorepedi kgotsa ditshwantsho tsa dikgonngwa tse di halofo** - Thala ditshwantsho tse di tlhalosang kakanyo ya bogolo le bonnye. - Dirisa kakanyo ya bogolo le bonnye ka nako ya botsweretshi jwa boitlhamedi.	Setshwantsho sa peba le ntswa(netefatsa gore setshwantsho sa ntswa se nna setonna mo setshwantshong sa peba) Didiriswa tse di mo phaposing jaaka diboloko, dibolo, dipolaiti, ditalama, dibaga, dithobane, diphekese, dibokoso tsa molelo, ditini, dikhurumelo tsa dibotlolo, jj. Ditshwantsho tse di bontshang bogolo le bonnye .	Letsatsi 1

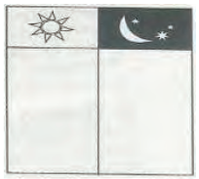
Beke 5	Nako e e tshitshintsweng : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana ka beke (mosako) ya ± 30 metsotso (± 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Nako e e lekanyeditsweng**
3.2 **Didiswa tsa tekanotlhakore (3-D)**	**Bapisa gore ke didiriswa tse feng tsa tse pedi tse di :** - **Bogolo le bonnye** - **Tonna thata le nnye thata** - **Tonna thata thata le nnye thata thata** **Metshameko ya go dirisa mmele** Morutabana o bapisa kgolokwe e nnye mo mmung, mo fatshe/fulurong. - Barutwana ba tsamaya mo thadisong ya sediko e nnye Morutabana o thala kgolokwe e e kgolo kwa ntle ga kgolokwe - Barutwana ba tsamaya mo thadisong ya sediko se segolo - Morutabana o botsa dipotso: o Ke sediko sefeng se sennye thata? o “Ke sediko sefeng se segolo thata? ” o “Tsamaya godimo ga sediko se sennye ” o Tsamaya mo sedikong se segolo . Morutabana o thala kgolokwe e e kgolo mo ntle ga kgolokwe - Barutwana le bona ba tsamaya mo thadisong ya kgolokwe e e kgolo - Morutabana o botsa dipotso di tshwana le: o Ke kgolokwe efeng e e kgolo?” o “Ke dikgolokwe difeng tse di nnye?	Kgolokwe e e kgolo le nnye mo mmung / mo fatshe 	Letsatsi 1

Beke 5	Nako e e tshitshintsweng : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana ka beke (mosako) ya ± 30 metsotso (± 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Nako e e lekanyeditsweng**
3.2 **Didiswa tsa tekanotlhakore (3-D)**	**Didiriswa tsa tlhakoretharo tse di kgonngwang.** Barutwana ba tlhaola le go Bapisa didiriswa tse di farologaneng go ya ka bogolo (kgolo, nnye) - Ditalama tse di kgolo go tswa go tse di nnye. - Dintsho a magolo go tswa go a mannye. - Dibokoso tse di kgolo go tswa go tse dinnye Tirwana e e ka atolosetswa go motshameko wa kwa ntle(tshameko yam mu le ya metsi) ko barutwana ba ka Bapisang didiriswa le go Motlotlo tse di nnye, kgolwane, kgolo thata le nnye thata. E ka nna gape ya goagantswa le botsweretshi jwa pono – dirisa kolage o dirisa didiriswa tse dikgolo /nnyel. Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Letlelela barutwana go: - tshameka motshameko wa dikarata tsekedimo le go tlhaola nnye, kgolo, kgolwane go tswa mo ditshwantshong. - botsa dipotso di tshwana le: “Ke tlhapi e feng ya ntlha kgotsa ke efeng ya bofelo?” “Ke tlhapi efeng e e mo gare?”  - Kgatelopele ya ditlhaka gore barutwana ba lemoge gore ditshwantsho di emela mafoko. Barutwana ga e se gore ba tshwanetse go buisa ditlhaka. 	Diboloko tsa di agang le dibolo tsa bogolo jo bo sa lekaneng. Ditalama, dibokoso tsa ditlhare, dibokoso tsa maswi tse di di senang sepe. Dibotlolo tsa ditlhare jj. 	

Beke 6 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	**Fopholetsa le go bala didiriswa letsatsi le letsatsi ka botshepegi** **Go bala letsatsi le letsatsi** - Go Motlotlo: go bala o ipoeletsa / o bala letsatsi moribo go tloga ka 1-5 - O opela dipina tsa dipalo le diraeme	Dipina tsa dipalo le diraeme	Letsatsi le letsatsi
1.2 **Dipaterone tsa Jeometeri**	**Kopolola paterone** Metshameko ya go dirisa mmele: - Morutabana o supetsa paterone ka mmele le barutwana ba tshwanetse go kopolola dipaterone sekao opa diatla, gata ka maoto, thwatlosa menwana jalo jalo	Barutwana 	Letsatsi 1
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) Kopolola paterone o dirisa dipopego sekao - Dirisa mefuta e e farologaneng ya matlhare - Dirisa dipopego sekao sediko, sediko, khutlotharo , sediko…… - Dirisa didiriswa sekao pekese e khibidu, e e botala jwa loapi, e e serolwana, e e khibidu……..	Dipopego tsa Logi Borotho ya Pekese	
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Letlelela barutwana go - Bopa dipaterone tsa bona ka go dirisa dikarata tsekedimo tsa ditshwanstho sekao tšheshe, letlhare, letlhare, tšheshe……. - Bopa dipaterone tsa bone ka go dirisa dikarata tsekedimo tsa mmala sekao khibidu, bududu, khibidu, bududu, khibidu….. - Ka nako ya botsweretshi jwa boitlhamedi barutwana ba gatise dipaterone ba dirise sepontšhe se se segolotsweng dipopego	Neela barutwana dikarata tsekedimo tsa ditshwantsho Dikarata tsekedimo tsa mmala Morutabana o kgona go segolola dipopego mo sepontšheng	

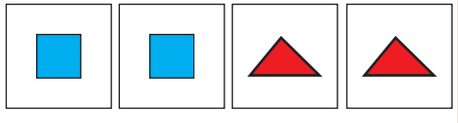
Beke 6 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa Tekanotlhakorepedi** **(2-D)**	**Lemoga, tlhopha le go neela khutlonne-leina** **Itsise barutwana ka khutlonne** Fa o itsise barutwana lwa ntlha ka khutlonne,didiriswa tse di dirisiwang di tshwanetse go tshwana gotlhe (bogolo jo bo tshwanang, mmala o o tshwanang, phopholetso e e tshwanang) Khutlonne e na le matlhakore a le mane. Se, se bidiwa khutlonne **Metshameko ya go dirisa mmele** - Barutwana mo phaposing ba bopa popego ya khutlonne - Letlelela barutwana go tsamaya mo godimo ga khutlonne e e bopilweng ka thapo mo fatshe, ba ntse ba tlotla “ke tsamaya mo khutlonneng-letlhakore le lengwe, matlhkore a mabedi, matlhakore a mararo, matlhkore a mane-matlhakore otlhe a a tshwana” - Letlelela ditlhopha tsa barutwana go bopa dikhutlonne tse dinne **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** - Morutabana o supetsa pharolognyo magareng ga sediko le khutlonne ka go ba supetsa sekhurumelo sa /moteme/thini le thaele ya khutlonne - Sekhurumelo se utlwala se le kgolokwe fa o se tshwara le thaele e na le dikhutlo mo dikhutlwaneng **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o thala go potologa sekhurumelo le go potologa thaele - Sekhurumelo se emela sediko le thaele e emela khutlonne - Letlelela barutwana go gatisa go potologa sekhurumelo le thaele o dirisa kerayone	Barutwana Thapo Sekhurumelo sa thini Thaele ya khutlonne Dikhurumelo tse di farologaneng tse di kgolokwe le didiriswa tsa popego ya khutlonne Kuranta Kerayone	Letsatsi 1
3.2 **Didiriswa tsa tekatekanotlha-koretharo (3-D)** **3.3** **le dipopego tsa te-kanotlhakorepedi (2-D)**	**Tlhaola didiriswa tekanotlhakoretharo (3-D) le dipopego tekanotlhakorepedi(2-D) kgotsa ditshwantsho** Kgaoganya barutwana ka ditlhopha Letlelela barutwana - Tlhaola didiriswa tse di farologaneng tsa tekanotlhakoretharo (3-D) le dipopego tekanotlhakorepedi (2-D) tse di neetsweng ke morutabana go ya ka bogolo le mmala - Gatelela thuto ya dipopego ka go tshameka metshameko ya dikarata tsekedimo ka nako ya motshameko o o lokologileng mo teng ga phaposi.	Dikarata tsekedimo tsa dipopego Didiriswa tsa tekanotlhakoretharo (3-D) jaaka diboloko, diboloko tsa Lego Dipopego tekatekanytlhakorepedi (2-D) jaaka metshameko e e gatelelang thuto ya dipopego jaaka”ke eng se se mo khutlonneng”	

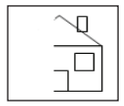
Beke 6 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Lemoga, supa le naya leina la didiriswa tsa tekanotharo tse di relelang**	**Itsise didiriswa tse di relelang** Neela barutwana didiriswa tse di farologaneng tsa tekanotlhakoretharo (3-D) le dipopego tekanotlhakorepedi (2-D) jaaka diboloko, mabokoso, dibolo jalo jalo - Letlelela barutwana go itemogela ka go tshameka, ba bone gore ke didiriswa dife tse di relelang le tse di dikologanga - Barutwana ba ka dirisa seridiswa sa go relela kwa lifelong la go tshameka kwa ntle, kgotsa morutabana a ka dirisa tafole a e robatse go le gonnye, a beile boloko mo godimo gore e relele - A nngwe ya didiriswa e ka relela go ya kwa godimo? - Ke didiriswa difeng tse di relelang go ya kwa tlase? - Ke eng didiriswa tse, di kgona go relela?	Diboloko Dibolo Mabokoso Diboloko tse di relelang/tafole ka diboloko	Letsatsi 1
3.1 **Maemo, kitsiso le dipono**	**Tlhalosa sediriswa se le sosi sa tekanotlhakoretharo (3-D) mo kamanong le nngwe.** **Godisa kgopolo mo godimo/kwa tlase, kwa tlase/mo godimo** Metshameko ya go dirisa mmele **Morutwana mongwe le mongwe o dula mo setilong sa gagwe** - Barutwana ba reetsa ditaelo tsa morutabana le go di latela ba ntse ba dira tiragalo sekao dula mosetilong,robala letsatsi fa tlase ga setilo - Ema mo godimo ga setilo sa gago. Dula ka fa tlase ga tafole - Baya diatla a gago mo godimo ga tlhogo ya gago - Baya diatla a gago ka fa tlase ga maoto a gago - Baya kgetsana ya dinawa ka fa tlase ga magwafa a gago - Dula mo godimo ga kgetsana ya dinawa - Tshwara hula hupu ka fa tlase ga mangole a gago **Dirisa dikgonngwa go ruta ka ga tekanotlhakoretharo (3-D)** - Letlelela barutwana ba le babedi go tshwara thapo ya go tlola, barutwana ba bangwe ba gagabe ka fa tlase ga thapo - Batla sediriswa ka fa tlase ga tapeiti/lebokoso jalo jalo **Tiriso ya dipopego kgotsa ditshwantsho tsa dikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o neela barutwana ka ditshwantsho tse di farologaneng, tse di kgonang go dirisiwa go ruta kgopolo ka ga mo godimo,kwa tlase, mo godimo e tshwantshitswe sekao motho o dutse mo godimo ga pitse, ngwana a robetse ka fa tlase ga kobo jalo jalo Letlelela barutwana - Supa kgopolo ka ga mo godimo le kwa tlase mo ditshwantshong	 Setilo sa morutwana mongwe le mongwe Mo godimo ga tafole  Ka fa tlase	Letsatsi 1

Beke 6 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.1 **Nako**	**Tlhalosa nako ya letsatsi go ya ka motshegare, le bosigo/lesedi, lefifi** **Itsise dikgopolo tse pedi "motshegare/bosigo le lesedi/lefifi"** • **Golaganya dikgopolo tse le ditlhogo tsa kitso ya tshimologo mo dikgonong tsa botshelo** **Metshameko ya go dirisa mmele** - Itemogele lefifi ka go dula ka fa tlase ga tafole le ditulo tse di khurumeditsweng ka kobo - Tswala digareteini tsa phaposi go dira phaposi gore e nne lefifi le go tima mabone - Barutwana ba Motlotlo ka ga maitemogelo a bone fa phaposi e le lefifi le fa e le lesedi - Neela totšhe go tshuba ka fa tlase ga kobo - Motlotlo ka ditirwana tse di diragalang bosigo le tse di diragalang motshegare **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o baakanya positara e e tshwantshitsweng letsatsi le ngwedi le go neela ditshwantsho tse di supetsang se se diragetseng mo nakong ya bosigo le mo nakong ya motshegare. - Barutwana ba baya ditshwantsho ka fa tlase ga letsatsi le/kgotsa ka fa tlase ga ngwedi	Ditilo le dikobo  Totšhe Phousetara ya letsatsi le ya bosigo Ditshwantsho tsa nako ya letsatsi le ditirwana tsa nako ya bosigo 	Letsatsi 1

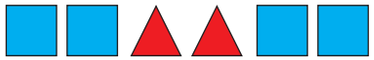
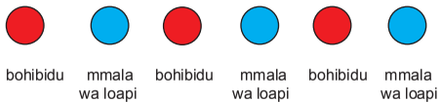
Beke 7	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) ± 30 metsotso e le ±5 ditirwana tsa dipalo tsa beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisetsweng**	**Bolelele jwa nako jo bo lekanyeditsweng.**
3.3 **Dipopego tsa tekanotlhakorepedi (2-D)**	**Lemoga, tlhopha le go neela ka maina a dipopego tsa tekanotlhakorepedi (2-D) mo phaposing** **Itsise diphasele le go ba kaela gore ba di age jang.** - Buisana ka setshwantsho sa phasele ka kelotlhoko e e kgethegileng mo dintlheng di tshwana le mmala, batho/diphololgolo, didiriswa, maemo a batho/diphologolo le didiriswa - Supa, lemoga le go bapisa mefuta ya dikarolwana tsa phaseele sekao ,. o Dikarolwana tsa dikhutlo. o Dikarolwana ka letlhakore le le tlhamaletseng o Dikarolwana kwa ntl e le matlhakore a a sa tlhamalalang. o Bala dikarolwana tsa malea . 	**Mefuta e fapaaneng ya diphasele – bonyenye dikarolwana tse 6.**	Letsatsi 1

Beke 7	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) ± 30 metsotso e le ±5 ditirwana tsa dipalo tsa beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisetsweng**	**Bolelele jwa nako jo bo lekanyeditsweng.**
3.1 **Maemo, kitsiso le dipono**	**Maemo a didiriswa tse pedi kgotsa go feta le kamano le barutwana** - Mo teng /kwa ntle **Metshameko ya go dirisa mmele** - Morutabana o dirisa teipe e kgomarelang kgotsa thapo ya go tlola go dira mela e mebedi mo fatshe - Barutwana botlhe ba ema letlhakoreng le le mme morutabana a bitse, “mo nokeng(barutwana botlhe ba tshwanetse go tlola magareng ga mela e mebedi, mme morago a goe a re tswang”. Barutwana botlhe ba tshwanetse go tlolela kwa ntle mo gongwe tsa matlhakore a mela e mebedi lengwe - Barutwana ba ba sa sa lateleng ditaelo morago sentle ba tswile mme ga ba tshwanela go tswelela ka go tshameka	Motshameko: Mo nokeng (gareng ga mela e mebedi), kwa ntle ga noka (kwa ntle ga mela e mebedi) Thapo tsa go tlolwa tse 2	
	Didiriswa tsa tlhakoretharo tse di kgonngwang: Letlelela barutwana go: - Ema dikgato tse di mmalwa go tswa mo kgamelong/serotong. - Latlhela dinawa mo serotong **Dirisa didiriswa tse dikgonngwang tsa popegotekanotlhakorepedi kgotsa setshwantsho** **Dirisa dikadikgonngwa tsa popego tekanetso tlhakore pedi le ditshwantsho.** - Barutwana ba thala ditshwantsho ba bapisa ka dilwana tsa diteng tsa kwa ntle.	Kgamelo kgotsa Seroto Pampiri le dikerayone	

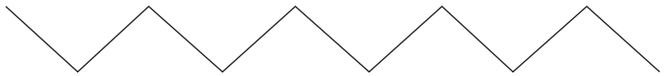
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisetsweng**	**Bolelele jwa nako jo bo lekanyeditsweng.**
3.1 **Maemo, kitsiso le dipono**	• **Dirisa didiriswa tse dikgonngwang tsa popegotekatekano tlhakorepedi kgotsa setshwantsho** Maemo a didiriswa tse pedi kgotsa go feta mo kamanong le barutwana Godimo/mo tlase **Metshameko ya go dirisa mmele** Letlelela barutwana go: sale ditaelo morago di tshwana le : - Baya boloko e e khibidu mo godimo ga tlhogo ya tsala ya gago - Baya boloko e e serolwana mot lase ga tafole - Baya boloko mo tlhogong ya gago mme o palame tafole - Gagaba mot lase ga tafole o tswetse matlho **Dirisa didiriswa tse dikgonngwang tsa tlhakoretharo** **Concrete using 3-D objects:** Letlelela barutwana go: - Baya dikhutlotharo mo godimo gat se dingwe - Baya dikhutlonne tse di bulu mo godimo ga tse dingwe - Baya dikgolokwe tse khibidu mo tlase ga dithutlonne tse di serolwana - Baya didiko tse di serolwana le dikhutlotharo tse dikhibidu mot lase ga khutlonne e e bulu **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o baakanya dikarata tsekedimo tsa setshwantsho ka bongwe ka ditshwantsho mo go tsona mmogo le dikarata tsekedimo tsa dipopego mo go tsona - Barutwana ba tshwanetse go baya dipopego mo godimo/ mot lase ga setshwantsho fa morutabana a kopa sekao Baya khutlonne mo godimo ga seroto sa maungo	Diboloko tsa kago Dipopego tsa Logi Ditshwantsho tse di farologaneng  Dikarata tsekedimo tsa dipopego 	Letsatsi 1

Beke 7	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) ± 30 metsotso e le ±5 ditirwana tsa dipalo tsa beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisetsweng**	**Bolelele jwa nako jo bo lekanyeditsweng.**
3.4 **Tekatekano**	• **Gatelela temogo ya molatekatekano mo go ena (mmele wag a gagwe)** **Metshameko ya go dirisa mmele** Letlelela barutwana go: - Neela dikarolo tsa mmele wa bone. - Opela pina e e nang le ditiragatso ka ga mmele Morutabana o supetsa barutwana kakanyo ya molatekatekano ka go pega thapo mo pele ga morutwana. - Barutwana ba tshwanetse go gopola gore mmele wa bona o kgaogantswe ka matlhakore a le mabedi.  - Morutabana o tlhalosa ka moo mmele o kgaoganeng ka dikarolo tse pedi tse di bidiwang molagare - Sengwe le sengwe se motho a nang le sona mme se le gabedi se bonwa mo matlhakoreng a mabedi a mmele sekao. Matlho, ditsebe, molomo, diatla, maoto jj - Sengwe le sengwe se motho a nang le sona se le mogare ga molagare sekao nko, molomo. Mo taolong ya molagare, Letlelela barutwana go: - Tsamaya o tsholetsa mangole kwa godimo “gwanta”, - Tsamaya jaaka lesole go gwanta a gagatšheletetse ekete moteme wa lesole’ - A fapaanya diatla, a fapaanya maoto fa a ntse a ntse a tsamaya Gokaganya tiragatso le tiragatso ya botsweretshi mo Dikgono tsa Botshelo **Dirisa didiriswa tse dikgonngwang tsa popegotekatekano tlhakorepedi kgotsa setshwantsho** - Thala ditshwantsho tse di sa felelang mo karolwaneng ya pampiri mme o kope barutwana go feleletsa setshwantshong se se sa felelelang	Pina: “Tlhogo, magetla, sehuba le letheka” Tiriso ya kgole go supetsa mebele ya barutwana . Setshwantsho se se sa felelang  	Letsatsi 1

Beke 7	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) ± 30 metsotso e le ±5 ditirwana tsa dipalo tsa beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisetsweng**	**Bolelele jwa nako jo bo lekanyeditsweng.**
3.1 **Maemo, kitsiso le dipono**	• **Maemo a didiriswa tse pedi kgotsa go feta mo kamanong le barutwana** Godimo le tlase **Metshameko ya go dirisa mmele** Letlelela barutwana go: - Supetsa “godimo” le “tlase” ka go tsamaisa mmele ko godimo le tlase go ya ka ditaelo tsa morutabana - Palama dikgato tse pedi a ntse a bala palo ya dikgato. - Palama dikgato tse pedi go ya tlase o ntse o bala - Palamela godimo le tlase mo didirisweng tsa kwa ntle - Palamela godimo le tlase ka thapo e e palamang fa sekolo se na le yona - Lebelela godimo le tlase. **Dirisa didiriswa tse dikgonngwang tsa popegotekatekano tlhakorepedi kgotsa setshwantsho** - Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) o Morutabana o neela barutwana mefuta e e farologaneng ya ditshwantsho mo kakanyong ya godimo le tlase ya bontshiwa sk motho o palama thaba kwa godimo, baluni ya m o moweng e e yang ko tlase, mongwe a tsamaela kwa tlase ga dikgato jj. Letlelela barutwana go: - Tlhalosa kakanyo ya godimo le tlase go tswa mo setshwantshong.	Opele pina , ”Oh the grand old duke of York” Dirisa dikgato kwa sekolong Jungle gym (sediriswa sa go palama) Ilere ya kgole ya go palama Setshwantsho se se supetsang godimo le tlase 	Letsatsi 1

Beke 8 Kiitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.4 **Tekano**	• **Kgabaganyo ya mola wa fa gare o akaretsa go bala** **Metshameko ya go dirisa mmele** Letletlela barutwana - Go fapaanya le go tlola ka morethetho a ntse a bala - Ba eme ba lebagane le go opa diatla ba a fapaanya (letsogo la molema la morutwana yo o emeng go lebagana le morutwana yo mongwe, le fapaana le la moja) ba opela pina ya dipalo/raeme. **Dirisa dikgonngwa go ruta tekanotlhakoretharo (3-D)** Letlelela barutwana - Latlhela bolo go tsala o ntse o bala - Tsamaya mo thapong e e šokameng o ntse o opela pina sekao “One little elephant balancingTlou ka tekanyo e nnye” - Ragela bolo kwa mothong yo mongwe Tirwana e e fa godimo e ka nna ya golaganngwa le serutwa sa dikgono tsa botshelo	Barutwana Pina ya dipalo le diraeme  Bolo, thapo	Letsatsi 1
2.1 **Dipaterone tsa Jeometeri.**	• **Bopa dipaterone tsa gago** **Metshameko ya go dirisa mmele** LetlelelLetlelela barutwana go : bope dipaterone ba dirisa - Mebele ya bone sekao mosetsana o mongwe ka mosese, basimane ba babedi ka marukgwe **Dirisa dikgonngwa go ruta didiriswa tsa tekanotlhakoretharo** - O dirisa dipopego tse di khibidu le tse di botala jwa loapi sekao dikhutlonne tse 2 tse di bududu, dikhutlotharo tse pedi tse di khibidu,dikhutlonne tse 2 tse di botala jwa loapi….. - Dirisa paterone ka nako ya ditirwana ka go dirisa pente e khibidu le dikhurumelo tsa mabotlolo a pentilweng bududu	Dipopego tse di khibidu le tse di tsa polasitiki  Dirisa dikhurumelo tsa botlolo le tse di khibidu  	Letsatsi 1
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) o dirisa mebala ya sekontari Letlelela barutwana go: - Ba dirisa monwana wa kgonope go gatisa molelwane ya mmala o dirisa pente sekao mmala o motala, wa namune, mmala o motala…… Mo godimo ga pampiri (**tirwana e, e kgona go dirwa ka nako ya botsweretshi jwa pono)**	Pampiri ya A4 Pente yam mala o motala le mmala wa namune kgotsa mebala e mengwe e o nang le yona	

Beke 8	**Nako e e tshitshintsweng ya go ruta**		
Kiitsiso	**Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Dipopego tsa tekanotlhakoretharo 3-D**	**Lemoga, tlhopha le go neela ka maina a didiriswa tsa tekanotlhakoretharo (3-D)** **Gatelela ka ga didiriswa tse di kgokologang** **Dirisa dikgonngwa go ruta ka ga tekanotlhakoretharo (3-D)** Letlelela barutwana - Tshameka ka dibotlolo tsa polasitiki, meteme/dithini, namune jalo jalo le go batlisisa dikgonego tsa gore di ka kgokologa Morutabana o botsa gore - Ke diboloko dife tse di mo sekhutlwaneng sa boloko tse di kgokologang? - Diboloko ga di kgokologe ka gore di na le letlhakore le lengwe le le tlhamaletseng - Kgokolosa didiriswa tse di farologaneng le go bona gore ke tse feng di kgonang go kgokologa le gore ke tse feng tse di sa kgoneng go kgokologa. - Barutwana ba tshwanetse go lemoga gore didiriswa tse di kgolokwe ke tsone fela tse di ka kgokologang.	Mabotlolo a dipolasitiki Diboloko. Diboloko tsa Lego Dithini,dikopi tsa polasitiki,dirolo tsa pampiri ya ntlwaneng boithomelo, dikerese, namune, dibolo jalo jalo	Letsatsi 1
3.1 **Maemo, kitsiso le dipono**	**Godisa bokao jwa dikaelo ka go itsise dikgopolo tse pedi e leng “Kwa pele/kwa morago”** **Metshameko ya go dirisa mmele** Letlelela barutwana go Latela dikaelo tsa morutabana (a le nosi le/kgotsa jaaka leloko la setlhopha) le go tsamaya kgotsa ba ema mo phaposing sekao - Ema “kwa pele” ga phaposi (ela tlhoko gore kwa pele mp phaposing ke kwa go nang le kgoro teng) - Ema “kwa morago” ga phaposi - Tsamaela kwa le kwa morago. - Gagabela kwa pele le kwa morago - Tlolela kwa pele le kwa morago	Barutwana	Letsatsi 1

Beke 8 Kiitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	Morutabana o thala paterone ka tshoko mo fatshe sekao;  Kgotsa  Letlelela barutwana - Tsamaya le/kgotsa go gagaba mo godimo ga paterone. - Baya karolwana ya pampiri e e khibidu mo sekhutlwaneng go emela roboto : fitlha mo sekhutlwaneng ba tshwanetse go retologa mebele ya bone yotlhe gore ba kgone go bona bokao jwa dikaelo	E thadilwe mo fatshe Pampiri e e khibidu.	Letsatsi 1
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo Letlelela barutwana - Dira tsela ka diboloko tsa go aga. - Kgoromeletsa koloi ya go tshameka kwa pele le kwa morago mo tseleng ya diboloko tsa go aga - Kgorometsa koloi ya go tshameka ka go fapogela mo letlhakoreng le lengwe la tsela ya diboloko	Diboloko tsa go aga	

Beke 8 Kiitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
5.1 **Kgobokanya le go tlhaola didiriswa**	• **Itsise dokgoolo tsa tiriso ya tshedimosetso (ba dirisa mebele ya bona) go kgobokanya dididriswa mo phaposing kgotsa tikologong go ya ka dipopego tse di neetsweng sekao:** **Metshameko ya go dirisa mmele** Kgaoganya barutwana ka ditlhopha - Mo setlhopheng sengwe le sengwe, letlelela basimane go ema mo moleng le basetsana go ema mo moleng o o latelang go bapa le basimane. - Letlelela barutwana go bala dipalo ya basimane le dipalo ya basetsana mo setlhopheng sengwe le sengwe - Ka se, o ka feleletsa kerafo ya mmele ya basimane kgotsa basetsana mo setlhopheng	Barutwana ba eme mo meleng e mebedi	Letsatsi 1
5.2. **Emela ,tlhaola le phutha ya didiriswa,**	**Dirisa dikgonngwa go ruta dipopego tsa tekanotlhakoretharo (3-D)** - Barutwana ba ka dirisa tshedimosetso e e fa godimo go aga kerafo ya didiriswa tsa tekanotlhakoretharo(3-D), ba dirise diboloko/dpopego, sekao di emela morutwana mongwe le mongwe		
5.3 **Tshedimosetso e neetsweng**	**Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Barutwana ba dira kerafo ka go dirisa tege go dira bolo e e nnye e emelang bokao jwa bone jwa tiro e e fetileng - Naya barutwana pampiri e e nang le setshwantsho sa mosetsana le mosimane mo godimo ga pampiri ya morutwana yo mongwe - Letlelela barutwana go kgokolosa dibolo tse di emelang dipalo ya basetsana le basimane mo setlhopheng sa bone - Barutwana ba baya dipalo ya dibolo ka fa tlase ga setshwantsho se se neilweng.	Tege Pampiri ya A4	

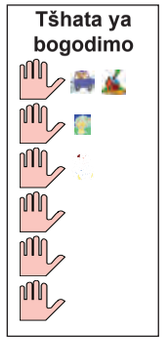
Basetsana	Basimane
□ □ □	□ □ □
2	3

Beke 9 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Didiriswa tsa tekatekanyo-tlhakore 3-D**	• **Batlisisa ka ga didiriswa tse di relelang le tse di kgokologang** Morutabana o tshwara bolo le go e itaya mo fatshe. O e tlogela e kgokologa mo fatshe. Morutabana o tsaya lebokoso le go dira se se tshwanang. Morutabana ba botsa dipotso: - Ke sediriswa sefe se se kgokologang? - Ke eng lebokoso le sa kgokologe? - Ke sediriswa se se ka relelang? Morutabana o supetsa barutwana gore lebokoso le na le matlhakore a le mane (dikhutlwana)ka ga moo ga e kgokologe, mme fela bolo ga e na dikhutlwana le go kgokologa - Rotloetsa barutwana go batla diriswa mo phaposing tse di kgokologang le go relela - Botsa barutwana gore a ba bona didiriswa tse di kgokologang le tse di relelang.	 **Bolo** Kgwele/bolo  **Lebokose**	Letsatsi 1

Beke 9 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa tekanotlhakorepedi (2-D)**	• **Lemoga le go tlhaola le go neela maina a dipopego tsa tekanotlhakorepedi (2-D) mo phaposing le mo ditshwantshong** - Sediko **Gatelela thuto ka ga sediko** Metshameko ya go dirisa mmele Letlelela barutwana - Dira sediko o dirisa menwana - Dirisa sediko a dirisa diatla a mabedi - Dula mo fatshe, o bopa sediko o tshwaragane diatla - Tsamaya mo sedikong se segolo, e e drilweng ka thapo, mo fatshe. - Tshameka motshameko o barutwana ba dulang mo sedikong ba opela pina. o Morutwana a le mongwe o ema ka fa ntle ga sediko le go dikologa sediko a taboga a tshwere bolo ka diatla. o Morutwana o tlhopha go baya bolo mo morago ga morutwana mongwe le mongwe yo o dutseng mo sedikong. o Morutwana yo tlhophilweng o tshwanetse go tsholetsa bolo le go leka go latlhelela morutwana yo mongwe ka bolo a ntse a taboga a potologa sediko go ya go dula mo lefelong le le se nang ope. o Fa bolo e ama morutwana yo o siang, morutwana yo o tshwanetse go ya go dula fa gare ga sediko, motshameko o a tswelela. **Dirisa dikgonngwa go ruta didiriswa tsa tekanotlhakoretharo** Letlelela barutwana - Batla didiriswa tse di kgolokwe mo phaposing - Batla dipopego tse di emelang sediko. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o naya didiriswa maina le barutwana ba tshwanetse go supa gore ke didiriswa dife tse di kgolokwe sekao namune, apole, tafole, mabole, buka, bokoso jalo jalo	Barutwana Thapo kgwele ya maoto ,bolo ya tenesel,bolo ya golofo,apole,namune,hula hupu jalo jalo Namune, apole, tafole, bolo, mabole, buka, lebokoso	Letsatsi 1

Beke 9	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	**Maemo a sediriswa se le sosi/pedi le kamamo go e nngwe** **Dikgopolo di tshwana le go bapa le/fa gare-go akareditswe mmala** **Metshameko ya go dirisa mmele** Morutabana o bitsLetlelela barutwana go : le bararo O bontsha dikgopolo go bapa le le fa gare ka go rulaganya barutwana ka thulaganyo e e farologaneng, a re: - Ntobi o eme go bapa le Tlotlo - Tumelo o eme fa gare ga Xolile le Ntobi Tirwana o ka boelediwa le barutwana ba bangwe Morutabana o neela barutwana diboloko tsa go aga tsa mebala e e farologaneng le go ba naya ditaelo jaaka: - Baya boloko e e khibidu go bapa le boloko e serolwana - Baya boloko e botala jwa loapi fa gare ga boloko e khibidu le boloko e e serolwana **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo** O dirisa dikgetsana tsa dinawa tsa mebala e e farologaneng(khibidu, botala jwa loapi,serolwana, mmala o o motala), naya barutwana taelo ya go: - Baya kgetsana ya dinawa e e botala jwa loapi go bapa le kgetsana ya dinawa e serolwana. - Baya kgetsana ya dinawa e khibidu fa gare ga e botala jwa loapi le e serolwana Tirwana e, e golaganngwa le serutwa sa dikgono tsa botshelo	Diboloko tsa mmala Dikgetsana tsa dinawa tsa mmala	Letsatsi 1

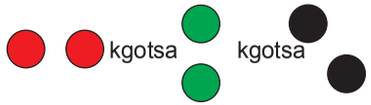
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 Didiriswa tsa tekanotlhakoretharo (3-D)	• **O rulaganya didiriswa tse di fetang di le pedi go tswa mo go tse di kgobokantsweng go tswa go nnye thata go ya go e tonna thata** **Tasmaiso ya mmele:** Neela barutwana seloko ya go tshameka le go dira dibolo ka seloko - Mo ditlhopheng ba tshwanetse go rulaganya dibolo tsa seloko go tswa ka tse dinnye thata go ya go tse ditonna thata le tonna thata go ya go nnye thata **Dirisa dikgonngwa go ruta didiriswa tsa tekanotlhakoretharo (3-D)** Leloko la setlhopha sengwe le sengwe o tshwanetse go batla sediriswa mo phaposing - Letlelela barutwana gore ba rulaganye didiriswa tse di tlhaolwang go tloga go nnye thata go ya go tonna thata mo ditlhopheng tsa bone Morutabana o neela setlhopha sengwe le sengwe buka ya dipalo tsa mogala Letlelela barutwana - Gagola pampiri go tswa mo bukeng ya dipalo tsa mogala le go phutha pampiri go dira bolo mo ditlhopheng tsa bone - Barutwana ba tshwanetse go bapisa gore ke bolo efe e leng tonna le e nnye thata **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Naya barutwana pampiri ya ditshwntsho tse di tonna le tse dinnye - Barutwana ba ka nna ba tshasa mmala wa dilo tse ditonna le tse dilo tse dinnye	Seloko ya go tshameka Sediriswa se sengwe le se sengwe mo phaposing Buka ya dipalo tsa mogala ya kgale Pampiri ya A4 ka ditshwantsho	Letsatsi 1

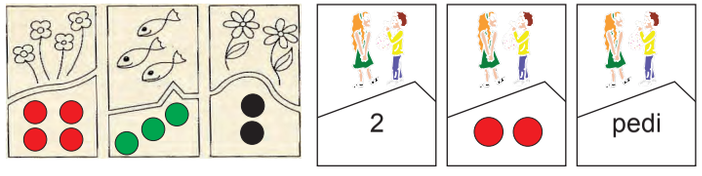
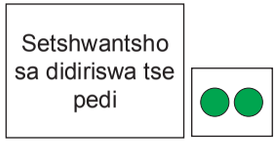
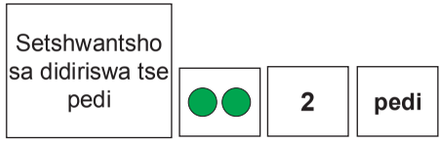
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.2 **Boleele**	**Itsise kgopolo ka ga boleele jwa seemo (moleele le mokhutshwane, moleele thata le mokhutshwane thata,telele le khutshwane)** Metshameko ya go dirisa mmele - Morutaban o bitsa barutwana go ba le bane le go botsa barutwana mo phaposing go thusa go di rulaganya go tloga go telele go ya go khutshwane. - Letlelela barutwana go ithulaganya ka bone mo ditlhopheng go tloga ka boleele go ya go mokhutshwane - Morutwana a le mongwe o ema ka mokotla wa gagwe go bapa le lobota fa maloko a mangwe a ditlhopha ba ntse ba lekanya boleele ba dirisa diatla		Letsatsi 1
	Dirisa dikgonngwa go ruta didiriswa tsa tekanotlhakoretharo (3-D) .Morutabana o baya didiriswa tse di farologaneng mo tafoleng ya setlhopha sengwe le sengwe jaaka rula, pensile, dikerayone, diraba jalo jalo - Tlhaola tsotlhe tse di telele le tsotlhe tse di khutsane - Barutwana ba tshwanetse go rulaganya go tswa go telele go ya go khutsane **Tšhata ya bogodimo** - Morutabana o na le tšhata ya bogodimo e baakantsweng sentle mo leboteng go thala tshwanalanyo ya bogodimo jwa morutwana yo mongwe le yo mongwe - Dirisa dikarata tsa matshwao tsa barutwana go supetsa bogodimo jwa morutwana yo mongwe le yo mongwe mo tšhateng ya bogodimo .	**Dirula, kerayone, dpensele, diphimodi jalo jalo** **Lindo o na le diatla a le marataro** Wandile o na le diatla a le 5 	

BEKE 10	Tiriso ya beke ya 10 go fitlhelela makoa a tlhtlhaloganyo le kgotsa o tlhaola dikgoreletsi mo thutong.	
Diteng tsa serutwa	**Setlhogo**	**Dithusathuto tse di atlenegesitsweng**
Dipalo diopereishene le kamano	**1.1** **Go bala didiriswa**	Fopholetsa go bala o boeletsa go fitlha go 5 (Dipina tsa dipalo le go akaretsa diraeme go godisa kakanyo ya go bala)
		Lemoga dipalo mo tirisong e e tlwaelegileng sk dingwaga, kwadisa
		Tlhaloganya diplokemotatelano (s.k ka nako ya go ya ntlwanaboithusitso)
		Tlhaloganya kgolagano ya bongwe ka bongwe (tshate ya go ka nako ya go ja)
		Supa ditshwantsho tsa dipalo le dikarata tsekedimo tsa lerontho tse di akaretsang dipalo ya ntha
		Itse letshwaopalo 1
		Lemoga leinapalo nngwe
	1.6 **Maano a go rarabolola dipalo**	Dirisa didiriswa tse di kgonngwang Tlhalosa kakanyo ya gagwe ka mafoko le ka tsela ya go Bapisa kgotsa didiriswa tse di kgonngwang
Dipaterone tse di mo tirisong	**2.1** **Dipaterone tsa Jeometeri**	Supa dipaterone mo tikologong
		Kopolola, atolosa le go tlhama dipaterone tsa gagwe

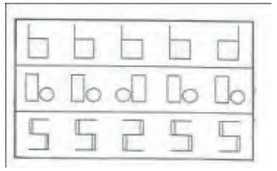
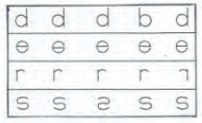
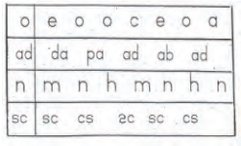
BEKE 10	Tiriso ya beke ya 10 go fitlhelela makoa a tlhtlhaloganyo le kgotsa o tlhaola dikgoreletsi mo thutong.	
Diteng tsa serutwa	**Setlhogo**	**Dithusathuto tse di atlenegesitsweng**
Boalo le Popego (Jeometeri)	**3.1** **Maemo, kitsiso le dipono**	Itse kwa pele ga /morago ga
		Itse mo godimo ga, tlase
		Itse mo teng le kwa ntle
		Itse godimo le kwa tlase
		Tlhaloganya dikakanyo: pele, morago, pele le morago
	3.3 **Dipopego tsa dithuto tekanyetso ya tekanyetsotlhakoretharo (3-D) le** **3.2** **Dipopego tlhakorepedi (2-D)**	Lemoga le go neela maina dikgolokwe
		Lemoga le go neela maina a mabokose
		Go aga dikarolo tse 6 tsa malepa
		Bontsha bokgoni jwa go farologanya gare ga didiriswa
		Ka lemoragopele, lemorago
		Supa le go lemoga khutlonne
		Tlhopha le go lemoga sediko
		Tlhopha le go lemoga khutlotharo
		Tlhopha le go lemoga Khutlonne
		Go lemoga gore mokgobokanyong ya didiriswa tse ke efe e kgolo, nnye, kgolo thata, nnye thata
		Didiriswa ka bogolo, tonna, nnye
		Mmala o tlwaelegileng, bohibidu, serolwana botala jwa loapi
		Dipopego: sediko, khutlotharo, khutlonne
		Didiriswa tse kgologang
		Didiriswa tse di relelang
	3.4 **Tekano**	Lemoga mola wa tekano
Tekanyo	**4.1** **Nako**	Dirisa mafoko a tshwana le motshegare, bosigo, lesedio le lefifi, phakeala, thapama, maitseboa go tlhalosa letsatsi
		Tlhomaganya ditiragalo tse di tswelelang mo botshelong jwa gagwe tsa letsatsi le letsatsi(Lenaneo la letsatsi le letsatsi)
		Supetsa temogo ya malatsi a beke, ditlha le maemo a bosa
		Itse letsatsi la gagwe la matsalo
	4.2 **Boleele**	Farologanya magareng ga botelele, botelelenyana, botelele thata, khutshwane,khutshwanenyane, bokhutshwane thata (Tshate ya boleele)
Tshedimosetso ya dipalo	**5.1, 5.2, 5.3** **Kgobokanya, tlhaola, thala, buisa le go emela tshedimosetso**	Kgona go kgobokanya, tlhaola, thala, buisa le go emela didiriswa go ya ka setlhaodi se le sengwe

KGWEDI-THARO 2 MOPHATO R			
Beke 11	**Nako e e tshitshintsweng ya go ruta**		
KITSISO	**Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Itsise bokao jwa palo 2** **Go Motlotlo**: bala didiriswa letsatsi le letsatsi go fitlha ka 2 Bala go ya kwa pele le go ya morago go fitlha ka 2. Balela kwa godimo o ipoeletsa go tloga ka 1-7 **Gatelela kgopolo ka ga "bontsi" le "bonnye".** Opa diatla gantsi……EMA. Opa diatla gantsinyana. Morutabana o opa diatla go fitlha ka 12	Opela pina ya go bala o dirisa ditshwantsho tse pedi tsa dinonyane-" Two little Dickey birds"	Letsatsi 1
	Metshameko ya go dirisa mmele Letlelela barutwana - Bitsa barutwanaba le ba 2 kwa pele. Ba bale. - Bala ditulo tse 2, ditafole jalo jalo. - Supa dikarolo tsa mmele tsa bobedi (pairs) jaaka matlho,ditsebe,diatla,maoto,mangole ,magetla jalo jalo - Dira diletswa tswa mmele sekao opa diatla gabedi, koka tlhogo gabedi, itaya leoto gabedi mo fatshe,tlola gabedi jalo jalo. - Tsholetsa menwana e 2,diatla a 2,maoto a 2.	Mebele ya barutwana	

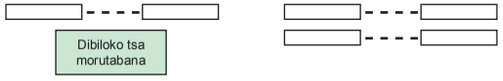
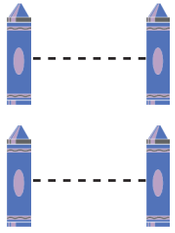
Beke 11 KITSISO	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	**Dirisa dikgonngwa go ruta didiriswa tsa tekanotlhakoreharo (3-D)** Letlelela barutwana - Supa didiriswa tse pedi tse di tshwanang mo phaposing sekao ditlhako tse pedi, dikerayone tse pedi jalo jalo - Godisa temoso ka ga tshomarelo ya dipalo, o letlelele barutwana go paka dibadisi di le pedi kgotsa didiriswa tse dingwe tseo ka di dirisang ka ditsela tse di farologaneng sekao  - Fa go balwa palo ya dibadisi/didiriswa ga go kgoreletswe ke bogolo kgotsa kemo kgotsa le fa di tshwana sekao : - Rulaganya ditalama di le 2, diphensele di le 2, dihula hupu di le 2, barutwana ba le 2 jalo jalo. - Di bale ka thulaganyo e e farologaneng sekao: di bale di adilwe, di bapile, mo moleng kgotsa di tlhatlhagantswe	Dibadisi/didriswa tse 2 di newe morutwana yo mongwe le yo mongwe	Letsatsi 1

Beke 11 KITSISO	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.3 **Itse letshwaopalo le go lemoga leinapalo**	• **Itse letshwaopalo le go lemoga leinapalo le le akaretsang 2** **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** Letlelela barutwana go - Bapisa dikarata tsekedimo tsa ditshwantsho ka ditshwantsho mo go tsone ka dikarata tsekedimo tse pedi ka marontho a mabedi mo go tsona. - Supetsa dikarata tsekedimo tse di kaediwang barutwana, tse di nang le ditshwantsho, tsa dipalo tse di tlhopilweng sekao ditlhako tse pedi, dikerayone tse pedi jalo . - Letlelela barutwana go lebelela dipalo ya didiriswa e e tshwanang mo phaposing. - Supa dikarata tsekedimo tse di bontshiwang barutwana, ka dipalo tse di farologaneng tsa ditshwantsho mo go tsone. - Supa dikarata tsekedimo tse di bontshiwang barutwana ka letshwaopalo 2. - Lemoga dikarata tsekedimo tse di bontshiwang barutwana ka leinapalo. - Golaganya letshwaopalo 2 ka dipalo ya didiriswa le dipalo ya marontho. - Golaganya leinapalo kaletshwaopalo, dipalo ya ditshwantsho le no ore ya marontho. - Akaretsa palo 1 e e mo karateng e e bontshiwang le go letlelela barutwana go supa palo 1 le 2 - Dira malepa/diphasele tsa dipalo le go letlelela barutwana go di bapisa sekao. 	Dikarata tsekedimo tsa dipalo tse di supetsang didiriswa tse pedi. Didiriswa mo pahaposing le mo tikologong.  Dikarata tsekedimo tse di bontshiwang ka ditshwantsho tse pedi, marontho,letshwaopalo le leinapalo 	Letsatsi 1

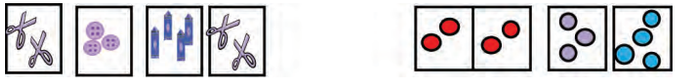
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Didiriswa tsa tekanotlhakoretharo (3-D) le** **3.3** **Dipopego tsa tekanotlhakorapedi (2-D)**	• **Tlhalosa, tlhaola le go bapisa didiriswa tsa dipopego tsa tekanotlhakoretharo (3-D) le dipopego tsa tekanotlhakorapedi (2-D) go ya ka go tshwana, le go farologana:** -Tse di tshwanang le tse di farologaneng **Metshameko ya go dirisa mmele** - Tlhopha basetsana ba babedi o dirisa raeme ya go bala. - Barutwana ba bangwe ba supa gore basetsana ba ba biditsweng ba tshwana jang? - Tlhopa mosimane le mosetsana o dirisa raeme ya go bala. - Barutwana ba bangwe ba supa gore mmele wa mosimane o farogana jang le wa mosimane. - Ka bobedi, morutwana a le mongwe o a ema ka mokgwa o o riling, yo mongwe o Bapisa ka mokgwa o a emeng ka teng - Morutwana o mongwe o ema ka diatla mo godimo ga tlhogo, o ema ka leoto le le lengwe. Yo mongwe o bapisa maemo. - Tlhaola barutwana go ya bong, ba ba rweleng ditlhako, ba ba rweleng diramphetshane, le ba ba sa rwalang ditlhako. - Biletsa barutwana ba latelang kwa pele. o Basetsana le basimane ba ba apereng marukgwe, mosetsana yo o apereng mosese o Bana botlhe ba ba rweleng ditlhako, le ba bas a rwalang ditlhako. - Botsa dipotso tse di tshwanang le “ke morutwana ofe yo o sa tshwaneng? Ke morutwana ofe yo o farologaneng?”		Letsatsi 1

Beke 11 KITSISO	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Didiriswa tsa tekanotlhakoretharo (3-D) le** **3.3** **Dipopego tsa tekanotlhakorapedi (2-D)**	• **Tlhalosa, tlhopha le go bapisa didiriswa tsa tekanotlhakoretharo (3-D) le tekanotlhakorepedi (2-D) go ya ka go tshwana le go farologana.** **Dirisa didiriswa go ruta tekanotlhakoretharo (3-D)** - Barutwana babedi ba itaya bolo mo fatshe: bolo e tonna le bolo e nnye - Barutwana ba bangwe ba supa gore dibolo di farologana ka tsela efe le gore di tshwana jang.. - Morutwana o mongwe o kgokolosa namune, yo mongwe o kgokolosa bolo. - Barutwana ba bangwe ba supa pharologanyo magareng ga bolo le namune le gore di tshwana jang. - Barutwana ba lebelela ditlhako tsa basimane le diramphetshane tsa basetsana - Barutwana ba bangwe ba supa gore ditlhako di farologana jang le gore di tshwana jang. - Barutwana ba bala didiriswa tse di tshwanang mo phaposing **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Neela dikarata tsekedimo papiso go tsweletsa ditshwano le dipharologanyo sekao.   - Tswelela go ya go dikarata tsekedimo tse di sa bonweng fa ngwaga o tsweletse. Barutwana gab a tshwanela go buisa ditlhaka sekao:  	Dira karata tsekedimo ya gagwe ya papiso ya motshameko jaaka sekao se se fa tlase  Karata tsekedimo ya papiso ya motshameko	Letsatsi 1

Beke 11 KITSISO	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, go bapisa le go rulaganya dipalo**	• **Bapisa gore ke didiriswa dife tse pedi mo go tse di kgobokantsweng di "lekanang go" kgotsa tse di "tshwanang"** **Metshameko ya go dirisa mmele** Letlelela bautwana - Godisa kgopolo ka ga tshwanang le farologaneng. - Bapisa menwana ya diatla le menwana ya maoto. Le fa e tshwana ka palo, e bonagala e sa tshwane. - Bapisa menwana ya diatla, ya maoto le matlho. Di tlhagelela di sa tshwane.Re na le palo e e tshwanang ya menwana ya diatla le ya maoto, e 10 mme fela re na le matlho a le mabedi.. - Bapisa ditsebe, diatla, maoto le dikgato. Di bonagala di sa tshwane, mme fela di tshwana ka palo. - Morutabana o thala didiko tse pedi mo fatshe kgotsa o bopa didiko ka thapo mo fatshe. O laela barutwana go ikgaoganya ka dtlhopa tse di lekanang mo sedikong sengwe le sengwe. Bala palo ya barutwana mo sedikong se le sengwe. O tlhagisa fa palo ya barutwana e tshwana kgotsa e lekana.		Letsatsi 1

Beke 11	Nako e e tshitshintsweng ya go ruta		
KITSISO	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa Tekanotlhakorepedi 2-D**	**Drisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo** - Godisa kgopolo ka ga tshwanang le farologane. - Baya sete ya matshwao a barutwana mo gare ga mmetshe. - Naya morutwana mongwe le mongwe karata tsekedimo ka letshwao. Barutwana ba bapisa matshwao a bone le a a mo mmetsheng. - Baya setlhopha sa didiriswa mo tafoleng le go di kgaoganya ka ditlhopha tse di lekanang (e nngwe ke ya gago, e nngwe ke ya me. **Dikai:** 1. Baya didiriswa tse pedi tsa mefuta e e tshwanang sekao dikerayone, mo moleng mo tafoleng. Kopa morutwana a le mongwe go bapisa nngwe ya dikerayone tsa gagwe le tsa morutabana.(morutwana o tlhoka go tsaya dikerayone tse pedi, a di bapise le palo ya dikerayone tsa morutabana. Jaanong re na le palo ya dikerayone tse di lekanang. 2. Boeletsa thutiso e e tshwanange, jaaka e fa godimo o dirisa didiriswa tse 4 le 6, gore barutwana ba kgone go tlhaloganya kgopolo ya “tshwana le lekana” 3. Morutabana o baya diboloko tse 2 mo moleng mo tafoloeng.O naya morutwana mongwe le mongwe boloko. Kopa barutwana go bapisa boloko ya mongwe le mongwe(Barutwana ba tlhoka go tsaya boloko e nngwe go e bapisa le diboloko tse pedi tsa morutabana) “Jaanong yo mongwe le yo mongwe wa rona o na le diboloko tse 2. Re na le palo ya diboloko e lekanang”.  **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Letlelela barutwana go bapisa setshwantsho le karata tsekedimo e e bontshiwang ya marontho. Supa dikarata tsekedimo tse di tshwanang.  - Neela dikarata tsekedimo tsa papiso ka nako ya metshameko le nako ya go tshameka o lokologile mo teng ga phaposi, barutwana ba ka neela pharologanyo le ditshwano.	 Diboloko	Letsatsi 1

Beke 11 KITSISO	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, go bapisa le go rulaganya dipalo**	• **Rulaganya le go Bapisa didiriswa tse di kgobokantsweng o dirisa "ntsi go"** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha ka 2. **Gatelela kgopolo ka ga "ntsi" le "nnye"** Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 2. **Metshameko ya go dirisa mmele** Morutwana o Motlotlo gore ke tsefe tsa didiriswa tse di kgobokantsweng tse di :"dintsi go feta ga" Letlelela morutwana go - Bala matlho a bone le menwana ya bone. O botsa potso "Ke sefe tse dintsi go feta go" - Bontsha menwana e mebedi mo seatleng se sengwe le monwana o le mongwe mo seatleng se sengwe. "Ke seatla sefe se se nang le menwana e mentsi e bontshitsweng?" - TlhopLetlelela barutwana go : le 3 o dirisa raeme ya go balela kwa godimo. Ba kgobokanye mo ditlhopheng tsa bo 2 le 1.  - Bala gore ke barutwana ba kae mo setlhopheng sengwe le sengwe. Bapisa ditlhopha o botse dipotso jaaka "Ke setlhopha sefe se se nang le barutwana ba le bantsi?"		Letsatsi 1

Beke 11 KITSISO	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, go bapisa le go rulaganya dipalo**	**Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo** - Baya dipara tse pedi tsa dikere, Dibadisi te 3 le dikerayone tse 4 mo tafoleng. Bala didiriswa mo setlhopheng sengwe le sengwe  - Botsa potso e tshwana jaaka “ka setlhopha sefe se se nang le didiriswa tse dintsi” Ke setlhopha sefe se se nang le didiriswa tse dintsi thata. Ke setlhopha sefe se se nang le didiriswa tse di fetang tsa dikere?” - Baya didiriswa tse di farologanene (dikgoropa,maje dikhurumelo jalo jalo) mo tafoleng. Di tlhaole ka ditlhopha (dikhurumelo tsotlhe mmogo) bala dipalo ya didiriswa mo setlhopheng sengwe le sengwe le go tlotla gore ke setlhopha sefe se didiriswa di leng dintsi, dinnye. Simolola ka didiriswa tsa dipalo tse dinnye. - Tsenyeletso: Barutwana ba newe ditshelo ka nako ya go tshameka ka metsi le nako ya go tshameka ka mmu, ba neye barutwana ditšhono tsa go itemogela ka dikgopolo tse di tshwanang jaaka ntsi go,nnye go le go lekana le.	Didiriswa tse dingwe le tse dingwe mo phaposing	
	Dirisa dikgonngwa tse di halofo go ruta ka ga dipopego tsa tekanotlhakorepedi (2-D) kgotsa ditshwantsho - Letlelela barutwana go bapisa ditshwantsho le dikarata tsekedimo tsa marontho. Supa dikarata tsekedimo tse di fetang nomoro ya didiriswa e morutabana a e neileng barutwana.sekao. - Morutabana a re: Batla karata tsekedimo e e nang le ditshwantsho tse di fetang tse 2? - Bapisa dikarata tsekedimo le dipalo e e tshwanang ya ya diidriswa kgotsa dibadisi. (paka dibadisi mo godimo ga karata tsekedimo e e nang le dipalo ya ditshwantsho) 	Ditshwantsho le dikarata tsekedimo tsa marontho Dibadisi	

Beke 12 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala dipalo**	• **Lemoga le go supa letshwaopalo le leinapalo e e akaretsang palo 2** **Motlotlo:**Bala didiriswa go fitlha go 2 letsatsi le letsatsi. Balela go ya kwa pele le go ya kwa morago go fitlha ka 2. Balela kwa godimo o ipoeletsa 1-7 **Gatelela dikgopolo ka ga "bontsi " le "bonnye".** Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 2.	Dipina tsa dipalo le diraeme	Letsatsi 1
	Metshameko ya go dirisa mmele Letlelela barutwana - Latlhela bolo mo fatshe ganwe, ka mantse a mangwe ga 1 - Latlhela bolo gabedi mo fatshe, ka mantswe a mangwe ga 2. - Thala pedi mo fatshe le go letlelela barutwana go tsamaya ka ba bopapedi. - Thala letshwao pedi mo mmung, mo moyeng,mo mmetsheng jalo jalo. - Bopa palo 2 ka seloko ya go tshameka. - Batla ditsala tse 2 ba ba rweleng ditlhako.	Dibolo Seloko ya go tshameka	
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) Letlelela barutwana - Sela padisi e le nngwe. - Sela dibadisi tse pedi	Dibadisi	

Beke 12	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala dipalo**	**Tiriso ya dipopego kgotsa ditshwantsho tsa dikgonngwa tsa tekanotlhakorepedi (2-D)** Letlelela barutwana - Supa karata tsekedimo ya setshwantsho le go di golaganya le palo e e tshwanang ya didiriswa. - Supa karata tsekedimo e e bontshiwang e tshwailwe ka marontho a le mabedi, o e golaganye le palo e e tshwanang ya didiriswa. - Supa letshwaopalo le leinapalo mo dikarateng tse di bontshiwang le go di golaganya le palo e e tshwanang ya Dibadisi. - Supa letshwaopalo 2 mo setshwantshong se se neilweng ke morutabana. - O bona kae letshwao 2 mo phaposing. - Kgaoganya barutwana mo phaposing. Naya tshono ya go tshameka ditomino tsa dipalo mo ditlhopheng.	Karata tsekedimo e e supetsang dtshwantsho,marontho, letshwaopalo le leinapalo pedi Setshwantsho sa didirswa tse pedi 2 pedi Dibadisi Ditshwantsho mo letshwaopalo le tlhagelelang teng	

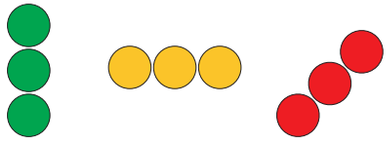
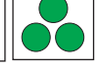
Beke 12 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.7 **Tlhakanyo le Tloso**	• **Rarabolola dipalo tsa mafoko ka go Motlotlo le go tlhalosa ditharabololo tsa dipalo tsa mafoko(kgangkhutswe ya dipalo) tse di akaretsang palo 2** **Metshameko ya go dirisa mmele** Dikai: 1. Morutabana o biletsa morutwana a le 1 kwa pele. Barutwana ba a ba bala. Morutabana o bitsa yo mongwe a le 1, o botsa barutwana gore ba bakae botlhe?"1 le 1 → 2 (Morutabana a re 1 le 1 e dira 2) 2. Morutabana o tlosa setilo se le 1. O tlosa gape 1. Go na le ditulo di le kae? 1 le 1→2. 3. Morutabana o supetsa menwana e 2. O Motlotlo a re balang menwana ya me. Fa ke fitlha monwana o le mongwe, o bona menwana e le kae? Tlosa 1 mo go 2→1 4. Morutabana o supetsa menwana e 2. Le gore:bala menwana ya me. Fa ke sa ntshe menwana, o bona menwana e le kae? 2 tlosa 0→2 5. Go na le ngwana a le mongwe kwa gae. O mongwe o tla go tshameka. Go na le bana ba le ba kae jaanong? 6. Go na le bana ba le babedi mo tafoleng. Ngwana mongwe le mongwe o batla setilo sa gagwe. Re tlhoka ditulo di le kae? **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Dikai: (Dirisa Dibadisi) 1. Fa o na le kuku e le nngwe, mama o go nya kuku e nngwe. O tla nna le dikuku tse kae? 2. Morutabana o na le dibadisi di le pedi mo seatleng se le sengwe, mo seatleng se sengwe ga gona Dibadisi. O na le Dibadisi di le kae tsotlhe? 3. Tlotlo o na le dibolo tse pedi, bolo e le nngwe e wela fa fatshe.Tlotlo o setse ka dibolo tse kae? 4. Fa o na le diboloko tsa 2, o naya tsala ya gago boloko e le nnngwe, o na le diboloko di le kae?	Dipina tsa dipalo le diraeme Dibadisi (Fa o sena dirisa dikuku) Dibolo Diboloko	

Beke 12 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, go bapisa le go rulaganya dipalo**	• **Rulaganya le go Bapisa didiriswa tse di kgobokantsweng o dirisa "nnye go"** **Motlotlo:** Bala didiriswa go fitlha ka 2 letsatsi le letsatsi. Gatelela digopolo ka ga "bontsi" le "bonnye" Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 2.	Dipina ka ga dipalo le diraeme	
	Metshameko ya go dirisa mmele (Tsenyeletsa tiragatso ya botsweretshi ya serutwa sa dikgono tsa botshelo-motantsho) - Opela pina "tlhogo le magetla, mangole le menwana" o opela lefoko lengwe le lengwe mo tikolong ya ntlha. - Mo tikologong e e latelang o opela o tlogela ;lefoko le lengwe sekao "Tlhogo le magetla, mangole le …….., mangole le……." - Opela o tlogela lefoko le lengwe gape sekao "Tlhogo le magetla…….. le……..,…….. le ……." - Morutabana o kaela barutwana gore nako nngwe le nngwe fa o opela o tlogela lefoko le lengwe go fitlhela o sa tlhole o opela mafoko. **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo** Morutabana o dira dibaga tsa dithapo tse nne. Tsenya dibaga tse 3 mo thapong e le nngwe, dibaga tse 2 mo thapong ya bobedi, sebaga se le sengwe mo thapong ya 3, dibaga tse 3 mo thapong ya bone Letlelela barutwana go supa: - Ke thapo efe e e nang le dibaga tse dinnye? - Ke thapo efe e e nang le sebaga se se fetang dibaga di le 2? - Ke thapo efe ya dibaga e e nang le sebaga se le sengwe se sennye go feta dithapo tse dingwe?	Pina : "tlhogo magetla, mangole le menwana" Dithapo tse nne ka palo ya dibaga tse di farologaneng.	

Beke 12	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, go bapisa le go rulaganya dipalo**	**Tiriso ya dipopego kgotsa ditshwantsho tsa dikgonngwa tsa tekanotlhakorepedi (2-D)** - Letletlela barutwana go bapisa setshwantsho le karata tsekedimo ya lerontho. Supa dikarata tsekedimo tse dintsi go feta le tse dinnye go palo e e neilweng ke morutabana sekao ke karata tsekedimo efe e e leng ntsi go feta 2? - Ke karata tsekedimo efe e e nnye go 4? 	Bapisa setshwantsho sa gago le karata tsekedimo ya setse ya marontho.	Letsatsi 1
	• **Gatelela tshwantshiso ya didiriswa tse pedi tse di neetsweng tse di kgobokantsweng o dirise:** - **Ntsi go,** - **Nnye go** **Motlotlo:** Bala didiriswa go fitlha ka 2 letsatsi le letsatsi Balela kwa godimo o ipoeletsa 1-7 **Gatelela dikgopolo ka ga "ntsi" le "nnye"** Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 2.	Pina ya dipalo le diraeme	
	Morutabana o dira dithapo tse pedi tsa dibaga. Tsenya dibaga tse 3 mo thapong, dibaga tse 2 mo thapong ya bobedi. Letlelela barutwana go supa gore: - Ke thapo efe e e nang le dibaga tse dinnye? - Ke thapo efe e e nang le dibaga tse dintsi? - Ke thapo efe e e nang le dibaga tse dintsi go na le tse 2? - Ke thapo efe e e nang le dibaga tse dinnye ka tse 3 ? Tsenyeletsa botsweretshi jwa pono mo barutwana ba segololang dipopego tse di nang le mahuti mo gare, le matlhare jalo jalo.	Dithapo tse pedi ka dipalo e e farologaneng ya dibaga.	

Beke 12	**Nako e e tshitshintsweng ya go ruta**		
Kitsiso	**Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, go bapisa le go rulaganya dipalo**	**Dirisa dikgonngwa tse di halofo go ruta ka ga dipopegpo tsa tekanotlhakorepedi (2-D)kgotsa ditshwantsho** Baya setlhopha sa didiriswa mo tafoleng, o di kgaoganye ka: - Ditlhopha tse di lekanang(e nngwe key a me, e nngwe key a gago) - Ditlhopha tse di sa lekaneng(bapisa go bona gore ke setlhopha sefe se se nang le didiriswa tse dintsi/tse dinnye le tse di lekanang) - Fa go na le ditlhopha tse pedi tse di sa lekaneng, re tshwanetse go dira eng gore di lekane/di Tshwane?		
3.2 **Didiriswa tsa tekanotlhakore-tharo (3-D)** **le** **3.3** **Dipopego tsa tekanotlhakore-pedi (2-D)**	• **Tlhalosa, tlhaola le go Bapisa didiriswa tsa tekanotlhakoretharo (3-D)le dipopego tsa tekanotlhakorepedi (2-D)** **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Letlelela barutwana: - Tlhaola didiriswa tse di farologaneng go ya ka bogolo. - Tlhaola le go Bapisa diboloko tse di farologaneng go ya ka bogolo (tonna le nyenyane). - Tlhaola diboloko go ya ka dipopego tse di tshwanang **Dirisa dikgonngwa tse di halofo go ruta ka ga dipopego tsa tekanotlhakorepedi (2-D) kgotsa ditshwantsho** Kgoganya barutwana ka ditlhopha di le tlhano. Naya setlhopha sengwe le sengwe dipopego tse di farologaneng. - Letlelela barutwana go tlhaola dipopego go ya ka: o Mmala o Dipopego (le fLetlelela barutwana go : sa itse dipopego). o Bogolo - Dirisa dikarata tsekedimo tsa motshameko tse di tsweletsang mmala, bogolo le dipopego	Didiriswa tse di farologaneng tse ditonna le tse dinnye mo phaposing sekao bolo, koloi ya go tshameka, boloko ya Lego jalo jalo. Diboloko tsa go aga ;le dibolo tsa bogolo jo bo farologaneng Dipopego tsa Logi kgotsa mmala mongwe le mongwe o o leng teng	Letsatsi 1

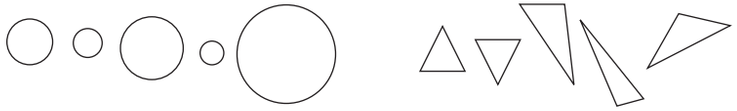
Beke 13	**Nako e e tshitsintsweng ya go ruta :** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) of ± Metsotso 30 ka letsatsi (±5 ditirwana tsa dipalo tse 5 ka beke)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di tshitsintsweng**	**Bolelele jwa nako jo bo lekanyeditsweng**
1.1 **Bala dibadisi/ didiriswa**	• **Itsise bokao jwa palo 3** **Molomo:Bala didiriswa letsatsi le letsatsi go fitlha go 3**. Bala kwa pele le kwa morago go fitylha go 3. Go balela kwa godimo o boeletsa go tswa 1-7 **Kgatelelo ya kakanyo "bontsi" le "bonnye".** Opa diatla gantsi….EMA.. Opa diatla gannye fela. Morutabana o opa diatla go fitlha go 3.	Dipina tsa dipalo le diraeme.	Letsatsi 1
	Metshameko ya go dirisa mmele - Morutabana o tshameka mmino kgotsa meropa. Fa mmino o ema barutwana ba tlhama ditlhopha tsa botharo. - Botsa barutwana ba masika a bona ba leng ba bararo. - Barutwana ba ema mo moleng, Morutabana o a botsa " kemang wa boraro mo moleng?' - Aroganya barutwana ka ditlhopha tsa ±5 - Letlelela barutwana go : : - Gagola ditsebe tse tharo mo bukeng ya mogala ya bogololgolo. - Menaganya ditsebe tse tharo mo dibolong tse tharo mme di kitlane mo go ka kgonagalang. Go oketsa bokao jo bo tlhamaletseng dirisa letsogo le le feketsang. Barutwana ba ka dula letsogo le le sa feketseng. - Bula dibolo mme o di menaganye gape - Bala dibolo fa tse tharo di fetsa go menaganwa - Fa o ntse o bala mo dibolong tse tharo mo baseketeng e e beilweng mo gare ga setlhopha. Tirwana e e ka golaganngwa ka Thuto ya ikatisdo ya mmele mo Dikgono tsa Botshelo	Barutwana kabo bona. Dibadisi Buka ya megala ya bogologolo basekete	

Beke 13	Nako e e tshitsintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) of ± Metsotso 30 ka letsatsi (±5 ditirwana tsa dipalo tse 5 ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di tshitsintsweng**	**Bolelele jwa nako jo bo lekanyeditsweng**
1.1 **Bala dibadisi/ didiriswa**	**Didiriswa tsa tlhakoretharo tsa tse di kgonngwang:** Letlelela barutwana go: Supa didiriswa tse 3 mo phaposing - Tsholetsa menwana e 3 - Baya didiriswa tse 3 mo tafoleng.Barutwanaba tla ka bongwe mo tafoleng go tla go bala didiriswa. Barutwana ba kgoma didiriswa fa ba ntse ba di bala, Boeletsa ka didiriswa tse dingwe. - Tlhabolola temogo ya tshomarelo ya dipalo ka go Letlelela barutwana go paka dibadisi tse tharo kgotsa didiriswa tse dingwe ka ditsela tse di farologaneng sekao.  - Fa go balwa, palo ya dibadisi/didiriswa ga e anngwe ke bogolo, maemo kgotsa gongwe gore di a tshwana - Sekao: - Rulaganya ditalama tse3 , diphensele tse 3, holahupo tse 3, barutwana ba le 3 jj. - Di bale ka tlhomagano e e farologaneng sekao: Di bale di phatlhaletse, di kitlanye, di le mo moleng kgotsa di le mmogo	Dibadisi kgotsa didiriswa	Letsatsi 1
	Dirisa didiriswa tse dikgonngwang tsa popegotekatekanotlhakorepedi kgotsa setshwantsho - Supetsa setshwantsho sa pitsa ya maoto a mararo. - Bala maoto . - Letlelela barutwana ba nagane ka sengwe sa maoto a mararo. - Supetsa karata tsekedimo ya setshwantsho sa didiriswa tsa 3. Barutwana ba bala dipalo tse di tsamaisanang le di badisi. - Dira gape jalo ka dikarata tsekedimov tsa marontho. - Barutwana ba bapisa dikarata tsekedimo tsa marontho dikarata tsekedimo tsa ditshwantsho.	Dikarata tsekedimo tsa ditshwantsho Dikarata tsekedimo tsa marontho Dibadisi Didiriswa tse 3 tsa stshwantsho 	

<table>
<tr><th>Beke 13</th><th colspan="3">Nako e e tshitsintsweng ya go ruta :
Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) of ± Metsotso 30 ka letsatsi (±5 ditirwana tsa dipalo tse 5 ka beke)</th></tr>
<tr><th>Setlhogo</th><th>Dintlha tsa tlhaloso</th><th>Didiriswa tse di tshitsintsweng</th><th>Bolelele jwa nako jo bo lekanyeditsweng</th></tr>
<tr><td rowspan="2">Itse matshwaopalo lego lemoga mainapalo</td><td>• Itse matshwaopalo le go lemoga mainapalo a a akaretsang palo ya 3
Molomol:Bala didiriswa tsa letsatsi le letsatsi go fitlha go 3
Balela kwa pele le kwa morago go fitlha go 3
Gatelela kakanyo ya “bontsi” le “bonnye”.
Opa diatla a gago gantsi….EMA.
Opa diatla gannyenyane. Morutabana o opa diatla ga 3.
Dirisa didiriswa tse dikgonngwang tsa thlakoretharo
- Neela morutwana mongwe le mongwe dikhubu tse 3
- Morutabana o supetsa lerontho, setshwantsho, letshwao kgotsa karata tsekedimo ya e e akaretsang dipalo leinapalo 1 - 3.
- Barutwana ba bala dipalo tse di totobaditsweng le go di baya dipalo tsona tseo tsa dikhubu mo menwaneng ya bona</td><td>Dikhubu
Karata tsekedimo ya dipalo e e akaretsang 1-3
Setshwantsho sa didiriswa 3  3 tharo</td><td rowspan="2">Letsatsi 1</td></tr>
<tr><td>Tiriso ya dipopego kgotsa ditshwantsho tsa dikgonngwa tsa tekanotlhakorepedi (2-D)
Letlelela barutwana go:
- Supa dikarata tsekedimo tse di nang leditshwantsho tsa dipalo tse di farologaneng mo go tsona..
- Supa dikarata tsekedimo tse di nang le matshwaopalo a 3.
- Gokaganya letshwaopalo la 3 le palo ya didiriswa le palo ya marontho.
- Gokaganya leinapalo le matshwaopalo le dikarata tsekedimo ya dipalo tsa marontho
- Neela morutwana mongwe le mongwe karata tsekedimo ya dipalo tse di akaretsang dipalo tsa 1-3.Morutabana o tsholetsa karata tsekedimo ya marontho kgotsa ya setshwantsho.Barutwana ba tsholetsa karata tsekedimo ya dipalo e e tshwanang.</td><td>Dikarata tsekedimo tse di nang le le ditshwantsho tsa dipalo tse di farologaneng mo go ngwe le ngwe.
Dikarata tsekedimo ka matshwaopalo a 3
Dikarata tsekedimo tse di tshwailweng ka marontho a 3
Setshwantsho sa didiriswa 3  3 tharo</td></tr>
</table>

Beke 13	Nako e e tshitsintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) of ± Metsotso 30 ka letsatsi (±5 ditirwana tsa dipalo tse 5 ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di tshitsintsweng**	**Bolelele jwa nako jo bo lekanyeditsweng**
1.7 **Tlhakanyo le Tloso**	• **Rarabolola ka molomo dipalo tse di kailweng tsa go tlhakanya le go tlosa ka tharololo ya go fitlha go 3** **Motlotlo:**Bala didiriswa letsatsi le letsatsi go fitlha go 3. Bala kwa pele le kwa morago go fitlha go 3. **Metshameko ya go dirisa mmele** **Sekao:** 1. Morutabana o biletsa bana ba babedi kwa pele. Barutwana ba a ba bala. 2 le 1 → 3. (Morutabana a re: 2 le 1 e dira 3) 2. Morutabana o pakolola ditulo tse 3. Ga a oketse gape. Go na le ditulo di le kae jaanong? 3 le 0 → 3. 3. Morutabana o pakolola ditulo tse 3.O tlosa setilo se le 1.Go setse tse kae jaanong? 3 tlosa1 → 2.(3 le 1di go naya 3) 4. Morutabana o biletsa barutwana ba le 3 kwa pele. O a ba bala. O busa barutwana ba le 2 kwa morago.Go setse barutwana ba le kae? 3 tlosa 2→1 **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** Naya morutwana mongwe le mongwe dibadisi di le 3. Fa morutwana a ntse a Motlotlo kgang khutswe barutwana ba paka dibadisi.. **Dikao** 1. Anne o na le dinamune tse 2 Peter o mo naya e nngwe e le 1.Anne o na le dinamune di kae jaanong? 2 le 1→3 (Morutabana a re: 2 le 1 di go naya 3). 2. Go na le letlhare le le 1 mo setlhareng le matlhare a mangwe a 2 a a golang.Go na le matlhare a le kae mo setlhareng jaanong? 1le 2→3. **Dikaio** 1. Tshwene e na le dipanana tse 3 e ja e le 1.E na le dipanana tse kae tse di setseng? 3 tlosa 2→1. 2. Go na le diapole tse pedi tse di matute mo setlhareng sa diapole. Apole e 1 e wa mo setlhareng. Go setse diapole tse kae mo setlhareng? 2 tlosa 1 ke →1.	Dipina tsa dipalo le diraeme. Ditilo Dibadisi tse 3 mo morutwaneng mongwe le mongwe	Letsatsi 1

Beke 13	Nako e e tshitsintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) of ± Metsotso 30 ka letsatsi (±5 ditirwana tsa dipalo tse 5 ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di tshitsintsweng**	**Bolelele jwa nako jo bo lekanyeditsweng**
2.1 **Dipaterone tsa Jeometeri**	• **Tlhama dipaterone tse di boelediwang tsa gagwe a dirisa didiriswa tsatlhakorepedi own repeating patterns using 2 objects** **Metshameko ya go dirisa mmele** Barutwana ba dula mo sedikong. Ba opela dipaterone tsa mafoko Sekao : letsatsi, loapi, letsatsi , Loapi dipanana, apole , pere, dipanana, apole, pere. Susan, John, Abby, Susan, John, Abby khibidu, botala jwa loapi, botala jwa loapi, , botala jwa loapi. botala jwa loapi e Waka, waka, eh, eh, waka, waka, eh, eh **Dirisa didiriswa tse dikgonngwang tsa tlhakoretharo (2-D)** Letlelela barutwana go: - Kgobokanya didiriswa tse di tshwanang mo phaposing sk dikerayone tse 3 - Kgobokanya gape didiriswa tse 3 tse di tshwanang mo phaposing sekao diboloko tsa lego - Barutwana ba itlhamela dipaterone tsa bona ba dirisa didiriswa tse pedi sekao : - Kerayone e le nngwe, boloko e le nngwe ya lego, kerayone e le nngwe - Dikerayone tse pedi, boloko e le nngwe ya lego, dikerayone tse pedi, boloko e le nngwe ya lego…. - Letlelela barutwana go tlhama dipaterone ka ditsela tse di farologaneng - Ba faapanya didiriswa tsa bona le ditsala mme ba boeletse tiro eo	Kerayone Prete Didiriswa tse dingwe	Letsatsi 1

Beke 13	Nako e e tshitsintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) of ± Metsotso 30 ka letsatsi (±5 ditirwana tsa dipalo tse 5 ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di tshitsintsweng**	**Bolelele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopegotekano tlhakorepedi (2-D)**	**Lemoga, tlhopha le go neela dipopego tekanotlhakorepedi (2-D) le ditshwantsho mo phaposing** - Khutlotharo • **Metshameko ya go dirisa mmele** Thala, kgotsa dirisa thapo go tlhama thadiso ya popego e kgolo ya khutlotharo Letlelela barutwana go : : - Dikologa popego o lebeletse dipopego tsa khutlotharo.Fa ba ntse ba tsamaya Letlelela barutwana go : re: " Ke tsamaya fa thoko ga khutlotharo". Nngwe, pedi, matlhakore a mararo kgotsa nngwe, pedi, dikhutlo tse tharo(sekhutlo) - Morutwabana o supa gore khutlotharo e na le matlhakore a mararo. - Thala khutlotharo mo moweng kgotsa mo mmung - Bopa khutlotharo ka mmopa - Dirisa didiriswa tse dikgonngwang tsa popegotekano tlhakorepedi kgotsa setshwantsho Letlelela barutwana go : : - Lemoga le go supa didiriswa mo phaposing tse di nang le popego ya khutlotharo - Lemoga le go supa didiriswa tsa tlholego tse di nang le dipopego tsa khutlotharo - Baya didiko tsa bogolo jo bo farologaneng le khutlotharo mo kgrtsaneng ya feely, Supa khutlotharo mo dipopegong tse dingwe. 	Mmopa kgotsa seloko ya go tshameka Didiriswa tsa khutltharo mo phaposing le mo tikologong Itirela dikarata tsekedimo tse 5 ka didikwe tse 5 tse di farologaneng, dikhutlotharo le khutlonne mo go tsone	Letsatsi 1

Beke 13	Nako e e tshitsintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) of ± Metsotso 30 ka letsatsi (±5 ditirwana tsa dipalo tse 5 ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di tshitsintsweng**	**Bolelele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopegotekano tlhakorepedi (2-D)**	**Tlhaola didiriswa tsa tlhakoretharo le dipopegotekanotlhakorepedi** - Tlhaola didiriswa tse di farologaneng go ya ka popego le mmala		
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Letlelela barutwana go: - Supa popego ya khutlotharo mo ditshwantshong. - Bapisa khutlotharo mo karolwaneng ya pampiri - Kopolola khutlotharo go tswa mo karateng e e neetsweng. - Bapisa mosako mo didikong tsotlhe mo papetlaneng - Dira ditshwantsho ka go dirisa dikhutlotharo ka nako ya botsweretshi jwa pono - Tshameka motshameko wa dikarata tsekedimo o o oketsang kgatelelo ya dipopego	Ditshwantsho tse e leng gore dikhutlotharo di ka supiwa Dikarata tsekedimo tsa motshameko tse di nonotshang temogo ya dipopego jaaka 'Go na le eng mo khutlonneng" Dipopego tsa Logi jj	Letsatsi

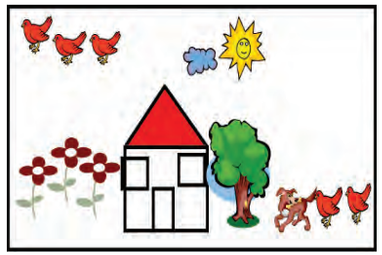
Beke 14 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala dipalo**	• **Gatelela kitso e e amogetsweng e e akaretsang palo 3** **Motlotlo:**Bala didiriswa go fitlha ka 3 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 3. Balela kwa godimo a ipoeletsa 1-7 **Gatelela dikgopolo ka ga "bontsi" le "bonnye".** Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 3.	Dipina tsa dipalo le diraeme.	Letsatsi 1
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) Letlelela barutwana go: - Batla didiriswa tse dikhibidu tse 3 mo phaposing. - Bopa palo 3 ka seloko ya go tshameka. - Kgokolosa dibolo tse 3 tse ditonna tsa seloko. - Kgokolosa dibolo tse 3 tse dinnye tsa seloko ya go tshameka. - Batla barutwana ba: le 3 mo phaposing ba ba apereng diaparo tsa mmala o o tshwanang.	didiriswa tse dikhibidu. Seloko	

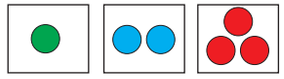
Beke 14 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.7 **Tlhakanyo le Tloso**	• **Rarabolola dipalo tsa mafoko ka go Motlotlo (kgang khutse e e nang le dipalo) le go tlhalosa ditharabololo tsa dipalo tse di akaretsang palo 3** **Motlotlo:** Bala didiriswa go fitlha ka ka palo 3 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 3. **Metshameko ya go dirisa mmele** Dikai: 1. Morutabana o bitsa barutwana ba le babedi kwa mmetsheng, a bo a bitsa morutwana a le mongwe. Morutabana o biditse barutwana ba le bakae go ya kwa mmetsheng? Morutabana o Motlotlo a re:2 le 1 e go naya 3 2. Go na le barutwana ba le bararo.Ngwana mongwe le mongwe o batla kerayone ya gagwe. Re tlhoka dikerayone di le kae? 3. Bana ba le bararo ba ema mmogo.O mongwe o tswa mo phaposing. Go setse ba le kae? **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Dikai: 1. Morutabana o baya dibadisi tse 3 mo tafoleng. O tsaya dibadisi tse 2. Go setse dibadisi di le kae mo tafoleng? Morutabana a re, fa o tsaya 1 go tswa mo go 3 go sala 2 2. Pinky o na le dikatse tse 2, Jabu o mo naya katse e le 1. Pinky o na le dikatse di kae tsotlhe? 1 le 2→3. Morutabana a re 1 le 2 di go naya 3. 3. Fa katse e le nngwe e na le mogatla o le 1, dikatse tse tharo din ale megatla e le kae yotlhe? 1 le 1 le 1→3	Barutwana Dibadisi	Letsatsi 1

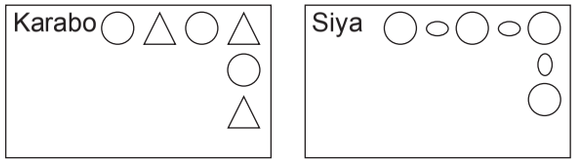
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1 **Dipaterone tsa Jeometeri**	• **Feleletsa paterone e e neetsweng ka didiriswa di le 2** **Metshameko ya go dirisa mmele** - Letlelela barutwana go kopisa paterone e e diragadiwang sekao tlola, tlola,tlola,tlola…….. - Barutwana ba feleletsa paterone ba dirisa mebele ya bone sekao ba eme go bapa ba fapaanya diatla mo godimo ga tlhogo ,diatla mo lethekeng, diatla mo tlhogong….. **Dirisa dikgonngwa go ruta ka ga dipopego tsa tekanotlhakoretharo (3-D)** - Letlelela barutwana go kopisa paterone e e dirilweng ka didiriswa sekao sebaga, sebaga, letlhokwa, sebaga, sebaga,letlhokwa……...	Sediriswa sengwe le sengwe	Letsatsi 1
	Dirisa dikgonngwa tse di halofo go ruta ka ga dipopego tsa tekanotlhakorepedi kgotsa ditshwantsho - Morutabana o neela barutwana ditshwantsho tse di segolotsweng tsa didiriswa tse di tshwanang (segolola ditshwantsho ka nako ya tirwana botsweretshi jwa pono) - Morutabana o simolola paterone, barutwana ba tshwanetse go kopolola paterone e e neetsweng sekao setshwantsho sa kofi,tee,sukiri…….. - Letlelela barutwana go feleletsa paterone ka go thala sekao tšheše, letlhare, tšheše,……..... - Sediko se se botala jwa leoapi , sediko se se khibidu,sediko se se botala jwa loapi.....	Ditshwantsho go tswa mo phasalatsong Pampiri ya A4 le kerayone	

Beke 14 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Didiriswa tsa tekatekanotlha-koretharo (3-D)**	• **Tlhaola le go bapisa dipopego tsa tekanotlhakorepedi (2-D) o dirisa ponagalo e e rileng** **Dikgonngwa tsa go ruta ka ga dipopego tsa tekanotlhakoretharo (3-D)** Kgaoganya barutwana mo ditlhopheng tse 5. - Morutabana o kgobokanya didiriswa tse di lekaneng gore setlhopha sengwe le sengwe se tlhaole go ya ka diponagalo tse pedi (di ka nna dintsi) - Naya setlhopha sengwe le sengwe didiriswa tsa diponagalo go tlhaola . Letlelela barutwna: - Tlhaola didiriswa go ya ka dilo tse di tshwanang le tse di sa tshwaneng. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** Tlogela barutwana mo setlhopheng se le sengwe. - Tshwantshisa le go tlhola ditshwantsho tse di kgobokantsweng ke morutabana sekao ditshwantsho tsa diaparo tse di farologaneng, dijo, dipalangwa jalo jalo - Letlelela barutwana go feleletsa letlhare la tiro mo ba Bapisang ditshwantsho tse pedi sekao molora wa go tlhapa meno le borashe ya meno, molora le lapa ya go tlhapa	Didiriswa jaaka: Diaparo tse di farologaneng Maungo a a farologaneng Diphologolo tsa polase tse di farologaneng tsa polasitiki Dipopego tse di farologaneg tsa tekatekanyo Diboloko tse di aging tse di farologaneng Diboloko tsa Lego tse di farologaneng Diiriswa tsa tlholego jaaka matlhare, dtoko,maje tse di farologaneng. Ditalamo tse di farologaneng Mebala e e farologaneng ya dikhurumelo tsa dibotlolo Dikerayone tse di farologaneng Kgobokanya ditshwantsho go tswa mo dimakasining. Segolola le go kgomaretsa mo dikarateng.	Letsatsi 1

Beke 14 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso, le dipono**	• **Maemo a didirswa tse pedi kgotsa tse dintsi tse di amanang le morutwana** - **Gatelela kgopolo "mo godimo/ka fa tlase" le "mo godimo ga"** **Metshameko ya go dirisa mmele** Morutwana mongwe le mongwe o dula mo godimo ga setilo. - Barutwana ba supetsa gore ba tlhaloganya kgopolo ka go dula mo godimo le ka fa tlase ba latela ditaelo tsa morutabana sekao dula mo godimo ga lebokoso, roBala letsatsi fa tlase ga lebokoso kgotsa tafole - Dula ka fa tlase ga tafole.Itire monnye ka fa go kgonagalang ka teng ka fa tlase ga tafole. - Ema mo setilong le go ikotlololela kwa godimo jaaka a batla. - KPalama mo godimo ga tafole le go dikolosa diatla ka disekele tse ditonna/dinnye. Atolosa o dirisa tonnanyana/nnye thata - Baya boloko mo tlhogong,o palame mo godimo ga tafole. - Tlhopha barutwana ba le batlhano o dirisa raeme ya dipalo - Laela morutwana mongwe le mongwe ka go mo sebeletsa. o Dula diatla a gago a le ka fa tlase ga maoto a gago o Ema diatla a gago a le mo dinokeng tsa gago o Ema diatla a gago ka fa morago ga mokotla wa gago o Dula diatla a gago a le mo magetleng o Ema diatla a gago a fapaane fa pele ga gago Barutwana ba ema mo pele fa ba bangwe ba dutse mo mmetsheng. Botsa barutwana: - Morutwana wa ntlha o dirang?(O dutse*)* - Diatla a gagwe a kae? *(Diatla a gagwe a ka fa tlase ga maoto a gagwe)* - Boeletsa se, le barutwana ba bangwe o dirsa ya bobedi,ya boraro,ya bone le ya bofelo. - Tlhopha setlhopha se sengwe go diragagtsa ditaelo tse di tshwanang le tsa setlhopha se. - Tsamaya le bana kwa ntle o bontshe kgopolo "mo godimo", kwa tlase" ba bontshe boithaopi.	Barutwana lebokoso  Fa godimo fa tlase	

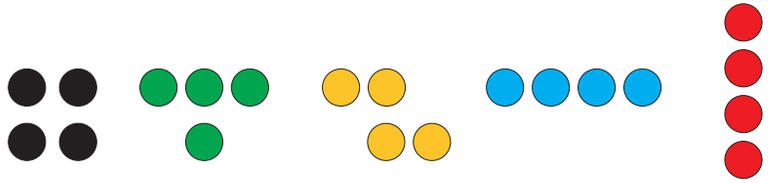
Beke 15 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	**Gatelela kitso e e amogetswang ka go akaretsa dipalo 1, 2 le 3** **Motlotlo:**Bala didiriswa go fitlha ka 3 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 3. Balela kawa godimo o ipoeletsago tloga ka 1-7 **Gatelela kgopolo ka ga "Bontsi" le Bonnye"** Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 3.	Pina ya dipalo le diraeme	Letsatsi 1
	Metshameko ya go dirisa mmele Rotloetsa barutwana go itemogela: - Karolo ya mmele e le 1 e e kgonang go ya kwa godimo le kwa tlase,go ya kwa letlhakoreng kgotsa kwa letlhakoreng le lengwe ka bo lona sekao loleme. - Dikarolo tsa pedi tse di dirisiwang go tlola sekao maoto	Mebele ya barutwana. Go opela le go diragatsa pina"sekao. 'there were three in the bed and .....' Raeme ya go bala sekao. "One two, buckle my shoe".	
	Dirisa dikgonngwa go ruta didiriswa tsa tekanotlhakoreharo (3-D) Letlelela barutwana go godisa kgopolopalo ka go: - Dirisa diboloko tse tharo go aga terio - Batla didiriswa tse 3 tse di khibidu mo phaposing . **Dirisa dikadikgonngwa tsa ga dipopego tsa tekanotlhakorepedi (2-D) kgotsa ditshwatsho** Morutabana o thala setshwantsho se se botlhofo - Morutabana o botsa potso e e amanang le dipalo ya didiriswa mo setshwantshong sekao o bona matlhbaphefo a le kae?	Diboloko Didiriswa tse di khibidu 	
1.2 **Balela dipalo kwa pele le kwa morago**	• **Dirisa dipalo 1,2 le 3 mo tirisong e e tlwaelegileng** **Motlotlo:**Bala ddiriswa go fitlha ka 3 letsatsi le letsatsi Balela kwa pele le kwa morago go fitlha ka 3. **Gatelela dikgopolo ka ga "bontsi" le "bonnye".** .Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 3. - Rotloetsa barutwana go ithuta dipalo ya ntlo le aterese ka tlhogo	Pina ya dipalo le diraeme	Letsatsi 1

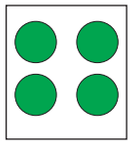
Beke 15 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Letlelela barutwana : - Go lebelela ditshwantsho tsa dipalo1,2 le 3 go tswa mo dimakasineng le difoleyara le go di kgomaretsa mo letlhare la pampiri (tsenyeletsa botsweretshi jwa pono) - Tshwantshisa dipalo ya didiriswa le dipalo ya marontho a a mo karateng. - Supetsa karata tsekedimo ya marontho.Barutwana ba latlhela dipalo e e tshwanang ya dikgetsana tsa dinawa mo teng ga lebokoso. - Tshameka morabaraba wa boto “Snakes and Ladders” le ditomino.	Makasine,Phasalatso  Dikarata tsekedimo tse di bontshiwang tsa marontho Kgetsana ya dinawa Motshameko wa “Snakes and Ladders” Dotomino	
Dintlha: Dipalo di re potologile gotlhe mo re leng teng: - Ntlo nngwe le nngwe e na le dipalo - Rotlhe re na le dipalo tsa mogala tse di farloganeng - Re bona dipalo mo matlhabaphefong a mabenkele. - Re bona dipalo mo dikungong tse di farologaneng tsa kwa mabenkeleng - Re bona dipalo mo dikoloing			
1.4 **Tlhalosa le Bapisa le go rulaganya dipalo)**	• **Rulaganya le go Bapisa didiriswa tse di kgobokantsweng o dirisa “ntsi go” nnye go” le lekana le” go ftlha ka 3** **Metshameko ya go dirisa mmele** BiletsLetlelela barutwana go : le babedi kwa pele. Ba letlelele ba dule mo sedikong. - Letlelela barutwana ba babedi go ema. Go dutse ba le ba kae? Ba bale. Go eme ba le ba kae? Ba bale. Ke dipalo efe e e ntsi/ntsi thata,e nnye/nnye thata? - Letlelelela barutwana ba bararo go ema. Ba bale. Ke dipalo efe e e ntsi/nnye? A go eme yo mongwe gape.Ba bale.Letlelela barutwana go : ba emeng ba bantsi go feta ba ba dutseng? - Boeletsa ka dipalo 1 go fitlha ka 3. - Bala basetsana. Bala basimane. A go na le basimane ba le bantsi go feta basetsana? **Dirisa dikgngwa go ruta ka ga tekanotlhakoretharo (3-D)** Kgaoganya barutwana ka ditlhopha tse tlhano Neela setlhopha sengwe le sengwe karolo ya thapo/ulu le +- didiriswa tse 5.		Letsatsi 1

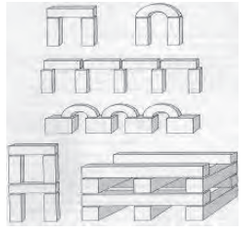
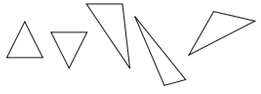
Beke 15 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa le Bapisa le go rulaganya dipalo)**	Barutwana ba bopa sentlhaga ka ulu. - Morutabana o sebeletsa setlhopha sengwe le sengwe, a ba kopa go dira setlhopha sa didiriswa sa bo 3 kgotsa 1 mo dintlhageng" - Barutwana ba tshwanetse ba supe gore ke setlhopha sefe se se nang le sediriswa se le sengwe go feta.. - Ke setlhopha sefe se se nang le didiriswa tse dintsi go feta ka 3? - Ke setlhopha sefe se se nang le dipalo ya didiriswa tse di tshwanang?	thapo Didiriswa tse 5 di newe setlhopha sengwe le sengwe	Letsatsi 1
2.1 **Dipaterone tsa jeometeri**	• **Kopolola le go feleletsa paterone e e neetsweng go ya ka mmala o o mohibidu,botala jwa legodimo le serolwana** **Metshameko ya go dirisa mmele** - Morutabana o diragatsa paterone.E boeletse le go tshwrelela morethetho sekao. o Opa, thwantsha (menwana) opa,thwatlosa o Thwantsha, opa,i taya maoto, thwatlosa, opa, iaya maoto, thwantsha, thwantsha **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Morutabana o neela morutwana mongwe le mongwe ka Dibadisi tse 3 tse khibidu, 3 botala jwa legodimo le tse di serolwana. Letlelela barutwana: - **Kopolola** paterone e e neetsweng ke morutabana sekao khibidu,botala jwa loapi, serolwana,serolwana (boeleltsa gantsi ka dipaterone tse di farologaneng) - **Feleletsa** paterone e e neetsweng sekao botala jwa loapi, serolwana,khibidu…… (boeletsa paterone gantsi ka ditsela tse di farologaneng) - Letlelela barutwana go tlhaola dibadisi go ya ka mebala e e farologaneng.	Morutwana mongwe le mongwe o newa Dibadisi tse 3 tse di khibidu, botala jwa loapi, tse di 3 tse serolwana kgotsa dikhurumelo tsa dibotlolo.	Letsatsi 1
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) - Neela morutwana mongwe le mongwe karolwana ya pampiri. - Letlelela barutwana go feleletsa popego ya tekanotlhakorepedi (2-D) mo molelwaneng. - Feleleltsa setshwantsho ka nako ya botsweretshi jwa pono ka nako ya go tahwatlosa setshwantsho fa gare. 	Morutwana yo mongwe le mongwe a newa pampiri ya A4 . Dikerayone	

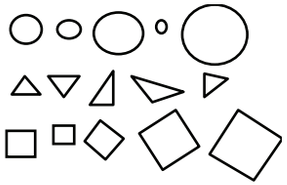
Beke 15 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.2 **Boleele**	**Utolola ka ga boleele** **Metshameko ya go dirisa mmele** - A morutwana yo mongewe a robale mo fatshe, ba bangwe ba beye diboloko mo moleng go bapa le mebele ya bone - Morutabana o botsa barutwana botlhe go aga sengwe sa dilo tse dikhutsana go feta tsala ya bone le se se telele go feta tsala ya bone	Dibiloko tsa go aga	Letsatsi 1
	LetlelelLetlelela barutwana go : tlhomamise: - Ke kago efe e e telele? - Ke kago efe e e telele thata? - Ke kago efe e e khutshwane? - Ke kago sefe se se khutshwane thata?		
	Letlelela barutwana go rulaganya dilwana tse di farologaneng: - Go tloga ka botelele go ya go khutshwane - Go tloga go khutshwane go ya go telelethata - Letlelela barutwana go tshwantshisa botelele jwa didiriswa tse di farologaneng. Morutabana o neela barutwana dikarolo tsa ulu kgotsa thapo. Rotloetsa barutwana go fopholetsa pele ga ba lekanya. Letlelela barutwana go lekanya: - Tlhogo ya mongwe le mongwe. - Maoto a mongwe le mongwe.. - Magwejane tsa mongwe le mongwe. - Lelokololo la seatla. - Letlelelela barutwanago Bapisa boleele jo bo farologaneng, ka go lebelela gore ke thapo efe e e telele kgotsa e e khutshwane sekao thapo e e lekanyang tlhogo ya me e telele go feta thapo e e e e lekantseng lelokololo la seatla. - Letlelela barutwana go tlhomamisa gore fopholetso ya bone e nepagetse..	Dithapo Kgole dithupa tsa lesela Dikerayone tsa boleele jo bo farologaneng Ulu kgotsa thapo Barutwana	

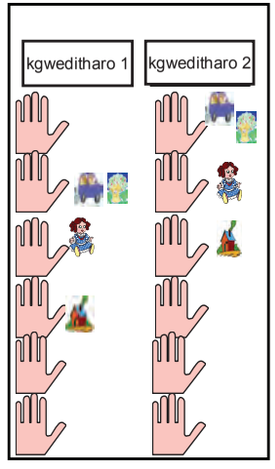
Beke 16 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala dipalo**	• **Itsise bokao jwa palo 4** **Motlotlo:** Bala didiriswa go fitlha ka 4 letsatsi le letsatsi. Bala kwa pele le kwa morago go fitlha ka 4. Balela kwa godimo o ipoeletsa 1-7	 Diraeme tsa go bala le dipina Mebele ya barutwana	Letsatsi 1
	Gatelela kgopolo ka ga "bontsi" le "bonnye". .Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 4. **Metshameko ya go dirisa mmele** Letlelela barutwana: - Oba tlhogo tsa bone ga 4. - Bopa 4 ba dirisa mebele ya bone. Barutwana ba tlhomamisa gore ba tlhoka bana ba le bakae. - Barutwana ba tswala matlho. Morutabana o itaya mo tafole gane. Ba bula matlho a bone, ba motlotlo gore ba utlwile go itewa tafole ga kae.Boeletsa dipalo 1 go fitlha ka 4.		

Beke 16 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala dipalo**	**Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo.** Letlelela barutwana: - Bopa dipalo 4 ka seloko ya go tshameka. - Batla ditsala tse 4 ba barweleng ditlhako. - Batla didiriswa tse 4 tse di kgolokwe. - Bofa morutwana mo matlhong le go ba letlelela go supa dipalo 1 go fitlha ka 4 ka go phopholetsa/gatisa dikarata tsekedimo tsa dipalo. - Godisa temoso ka ga tshomarelo ya dipalo ka go letlelela barutwana go paka dibadisi tse nne kgotsa didiriswa dingwe le dingwe tse di farologaneng.sekao  Fa o bala,dipalo ya didiriswa ga e amiwa ke bogolo kgotsa maemo, kgotsa ke mofuta o o tshwanang. Sekao: - Rulaganya ditalamo 4, dipensele tse 4,dihula hupu tse 4 hoops,barutwana ba le 4 jalo jalo. - Di bale ka ka thulaganyo e e farologaneng sekao di bale di adilwe, di bapile, mo moleng kgotsa di pakilwe **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** Letlelela barutwana: - Batla ditshwantsho tse 4 le go di kgomaretsa mo pampimosako. - Tshwantshisa dipalo ya didiriswa go dipalo tsa marontho mo karateng - Supa karata tsekedimo ka marontho a mane.	Seloko ya go tshameka Didiriswa tse di kgolokwe Dira sete ya dikarata tsekedimo tsa dipalo tse di phopholediwang ka go di segolola dipalo go tswa mo pampiri e e magwasipa le go di kgomaretsa mo karateng e nngwe.. Morutwana mongwe le mongwe o newa Dibadisi tse 4 kgotsa didiriswa tse 4 Makasini,difoleyara,phasalatso Pampiri ya A4 paper le gomo 	Letsatsi 1

Beke 16 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, bapisa le thulagano dipalo**	• **Dirisa palo 4 mo tirisong e e tlwaelegileng** - Dipalo ya 4 e dira gore o gopole eng? Koloi - maotwana a koloi Setilo - matotwana a mane a setilo Ntša - Dikgato tse nne tsa ntša Tafole - maotwana a mane a tafole - Go godisa kgopolo, rotloetsa barutwana go gopola dipalo ya bone ya ntlo le aterese. **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3)** - Naya barutwana tšhono ya go tshameka motshameko wa ka karata tsekedimo ya dipalo tse di leng teng mo phaosing. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Bontsha karata tsekedimo ya letšhwaopalo 4 O tshameka metshameko jaaka: - Fa ntlo ya lona e na le 4,opa diatla ga nne. - Batla tsala mo phaposing yo nang le dipalo ya ntlo e e tshwanang le ya gago(Barutwana ba botsa ditsala dipalo tsa matlo a bone) - Ke dipalo ya ntlo ya ga mang e e fetang 4? - Supetsa barutwana karata tsekedimo ka marontho a mane. - Supa karata tsekedimo ka ditshwantsho tse nne mo go yona.	Aterese ya ntlo ya morutwana Barutwana **4** Dipalo nngwe le nngwe e e leng teng mo karateng ya metshameko Setshwantsho sa didiriswa tse 4  Dikarata tsekedimo ka ditshwantsho tse 4 le marontho a le 4	Letsatsi 1

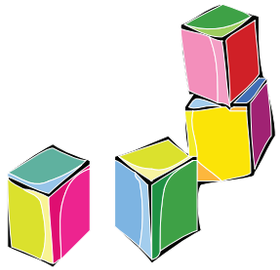
Beke 16 **Kitsiso**	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.2 **Didiriswa tsa tekatekanotlha-koretharo (3-D)**	• **Utolola dikgonagalo tsa go dirisa diboloko tsa go aga** Letlelela barutwana: - Dirisa diboloko tse dingwe le tse dingwe go aga - Aga boago jwa diboloko di le 3 ya ga kwa godimo le diboloko tse 5 go ya kwa tlase. - Dirisa biboloko tse di dintsi tse di tlhokagalang go aga terena. - Supa gore ke mangy o o agileng terena e e telele thata - Aga terio e e kwa godimo (tsepamo). - Aga boago jo bo polata sekao tsela kgotsa ntlo(rapaletseng) - Supa gore ke mangy o o agileng terio e e kwa godimo thata. - Neela diboloko tsa go aga ka nako ya go tshameka mo teng ga phaposi gore barutwana ba tswelele go utolola diboloko tsa go aga.	Diboloko tse di aging sekao. 	Letsatsi 1
3.3 **Dipopegotekano tlhakorepedi (2-D)**	• **Godisa bokgoni go tlosa dipharologantsho mo gare ga dipopego tse di mo tikologong, go sa kgathalesege bogolo kgotsa bogolo jwa dikhutlwana tsa teng** **Metshameko ya go dirisa mmele** Letlelela barutwana go dula ka ditlhopha tse 3: - Robala mo fatshe le go dira khutlotharo ka mebele ya bone.Tlhagisa gore le fa dikutlotharo tsa ditlhopha di farologana,khutlotharo ya setlhopha sengwe le sengwe, e santse e le khutlotharo - Morutabana o supetsa dikhutlwana tse di farologaneng mo fatshe sekao:  - Barutwana ba tsamaya mo letlhakoreng la dipopego le go itemogela dikhutlwana tse di faroganang ka mebele ya bone. **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo(3-D)** - Dirisa dithupana tse 7 le go di baya mo moleng o o tlhamaletseng 	Barutwana Morutwana mongwe le mongwe o newa dithupana tse 7	Letsatsi 1 Tlhopa tirwana e le nngwe ya Metshameko ya go dirisa mmele , dikgonngwa, le dikgonngwa tse di halofo.

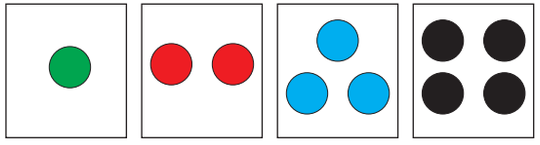
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopegotekano tlhakorepedi (2-D)**	- Dirisa dithupana go dira mola o o potapotang.  - Dirisa dithupana go dira mola o o šokameng.  - Dirisa dithupana go dira khutlotharo.  - Tlhagisa gore khutlotharo ya morutwana mongwe le mongwe ga di Tshwane mme fela dikhutlotharo di santse di le dikhutlotharo.		
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Morutabana o thala didiko tse 5 tse di farologaneng, dikhutlotharo le dikhutlonne mo karateng sekao.  Morutabana o kgaoganya barutwana ka ditlhopha. Letlelela barutwana go: - Lemoga dikarata tsekedimo tsa khutlonne mo gare ga dipopego tse dingwe.	Dikarata tsekedimo tse di nang le didiko tse 5 tse di farologaneng, dikhutlotharo le dikhutlonne mo go tsone.	

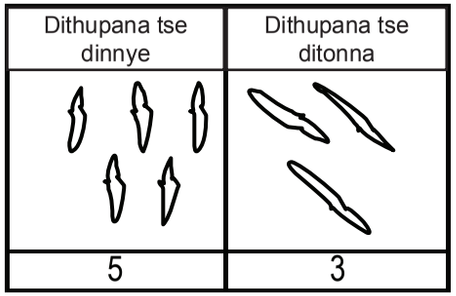
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.2 **Boleele**	Gatelela kgopolo ka ga boleele **Metshameko ya go dirisa mmele** Letlelela barutwana: - Utolola boleele ka go tshwantshisa didiriswa . - Supa gore ke sediriswa sefe se se leng se telele thata le sediriswa se se khutshwane thata. - Tshwantshisa boleele jwa barutwana ba le babedi le go supa gore ke morutwana ofe yo o mokhutshwane le yo moleele. - Tshwantshisa boleele jwa barutwana ba le babedi le go botsa dipotso jaaka “ke morutwana ofe yo mokhutshwane thata le gore ke ofe yo moleele thata. - Morutabana o lekanya barutwana gape a dirisa karata tsekedimo ya boleele go tswa mo kgwedi-tharong ya ntlha. - Morutabana o tlogela dikgatiso tsa kgwedi-tharo e fetileng (diatla , diatla ka ditshwantsho le matshwao a burtwana) gore ba kgone go bapisa ditekanyetso tse pedi . - Barutwana ba itemogela gore a ba godile go tloga mo kgwedi-tharong e e fetileng. - Ke mang o o sa golang gotlhelele? - Ke mangy o o godileng thata go tloga ka kgwedi-tharo ya ntlha? sekao o Ntobi o godile ka bogolo jwa seatla se le sengwe. o Boleele jwa ga Lindo bo tshwana fela.	Diphensele,dithapo, Thudi,dipekese Bogolo jwa seatla Karata tsekedimo ya boleele  	Letsatsi 1

Beke 17 KITSISO	Nako e tshitshintsweng go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutana(mosako) ka ± 30 metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Gatelela kitso e e amogetsweng ka ga bokao jwa palo 4** **Motlotlo:**Bala didiriswa letsatsi le letsatsi go fitlha ka 4. Balela kwa pele le kwa morago go fitlha ka 4. **Gatelela kgopolo ka ga "bontsi" le mmalwa"** Opa diatla gantsi…….EMA. Opa diatla mmalwanyana.Morutabana o opa diatla go fitlha ka 10. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye..	Dipina tsa dipalo le diraeme	Letsatsi 1
	Metshameko ya go dirisa mmele Letlelela barutwana: - Gatisa palo 4 mo moyeng o dirisa monwana wa gagwe. - Opela pina sekao dibotlolo tse nne tse di tala di akgega mo loboteng....' - Potologa ga 4 .		
	Dirisa dikgonngwa tsa tekanotlhakoretharo (3-D) Letlelela barutwana go godisa kgopolo ka ga palo ka go: - Thala palo 4 mo mmung. - Batla didiriswa tse 4 tsa tekanotlhakoretharo (3-D) tse di kgokologang - Aga diphasele ka dikarolwana tse 4. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o tlhopa dikarata tsekedimo tse 4 tsa leinapalo. Morutabana o bonsha karata tsekedimo ya leinapalo 4 le go setshwantsho sa setshamekisi kgotsa sa phologolo. - Morutwana o leina la gagwe le bontshitsweng o dira modumo ka setshamekisi se se dirilweng. - Boeletsa go fitlhela maina a le a bontshitswe. - Botsa gore ke maina le kae ba ke a bontshitseng? Lo bone ditshamekisi kgotsa ditshwantsho tsa diphologolo tse kae?	Pane e e polata/ bokoso ka mmu Didiriswa tsa tekanotlhakoretharo (3-D) tse di kgokologang Phasele ya dikarolwana tse 4 Karata tsekedimo ya setshwantsho sa setshamekisi Karata tsekedimo ya setshwantsho sa phologolo	

Beke 17 KITSISO	Nako e tshitshintsweng go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutana(mosako) ka ± 30 metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.3 **Matshwaopalo le Mainapalo**	• **Lemoga le go itse letshwaopalo le leinapalo ya palo ya 4** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha ka 4. Balela kwa pele le kwa morago go fitlha ka 4.	Dipina tsa dipalo le diraeme	Letsatsi 1
	Gatelela kgopolo ka ga "bontsi" le mmalwa" Opa diatla gantsi…….EMA. Opa diatla mmalwanyana.Morutabana o opa diatla go fitlha ka 4. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye.. **Metshameko ya go dirisa mmele** - Kwala nne mo setilong.Mo fatshe, mo mokotleng wa tsala. - Tsholetsa menwana e 4. - Morutabana o tshameka ka moropa. Fa moropa o khutla, barutwana ba bopa ditlhopha tse nne.		
	Dirisa dikgonngwa tsa tekatekanyopopegopedi (2-D) kgotsa ditshwantsho - Bontsha barutwana karata tsekedimo e e nang le letshwaopalo 4 - Supa leinapalo mo karateng. - Golaganya leinapalo go palo e e tshwanang ya didiriswa.	Karata tsekedimo ya letshwaopalo Karata tsekedimo ya leinapalo nne sediriswa sa tekanotlhakoretharo (3-D) **4** **nne**	

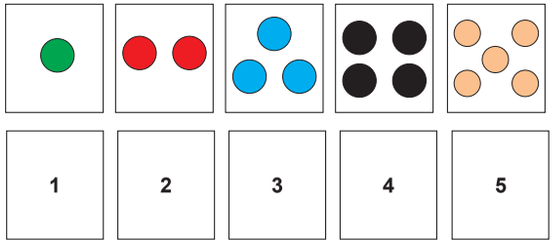
Beke 17 KITSISO	Nako e tshitshintsweng go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutana(mosako) ka ± 30 metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.7 **Tlhakanyo le Tloso**	• **Rarabolola ka go Motlotlo le go tlhalosa ditharabololo tsa dipalo tsa mafoko (dipalo tsa dikgang khutswe) tse di akaretsang palo 4** **Dirisa didiriswa tsa tekanotlhakoretharo (3-D)** **Dikai:** 1. Morutabana o go naya diboloko tse 2, o setse o na le diboloko tse 2.O na le tse kae tsotlhe? 2. Fa o na le didiko tse 2 tse di serolwane le tse dikhibidu tse 2 ,o na le didiko di le kae tsotlhe? 3. Sipho o na le dikerayone di le 4 le Joy o na le kerayone e 1 .Ke mang o nang le dikerayone tse dintsi? 4. Fa Jody a na le dimpopisi tse 4, o latlhegelwa ke mpopisi e le 1,o setse ka dimpopisi di le kae? Kgaoganya barutwana ka ditlhopha. - Naya setlhopha sengwe le sengwe didiriswa tse di mmalwa sekao dipensele, dikerayone,dikopi, dipopego. Letlelela barutwana go kgaoganya didiriswa tse ba di neilweng magareng ga maloko a ditlhopha (nyalano ka-bongwe-ka-bongwe) - Botsa barutwana dipotso jaaka: “A go na le didiriswa tse di setseng?” - (Morutabana a netefatse gore dilo tse dintsinyana go feta palo ya barutwana mo setlhopheng. Sutisa dilo go supa kabelano e e lekanang)	 Diboloko Dikerayone Didiko tsa mmala wa legodimo le tse dikhibidu Dimpopisi Didiriswa tse di lekaneng (sediriswa se sengwe sa morutwana mongwe le mongwe) jaaka phensele,kerayone,dikopi,dipopego	Letsatsi 1

Beke 17 KITSISO	Nako e tshitshintsweng go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutana(mosako) ka ± 30 metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, bapisa le thulaganyo ya dipalo**	• **Rulaganya le go bapisa setlhopha sa dilwana o dirsa kgolo go , nnye go go lekana le go fitlhela go palo ya 4** Kgaoganya barutwana ka ditlhopha - Morutabana o neela setlhopha sengwe le sengwe dibadisi tse 4 le manathwana a mabedi a wulu. Letlelela ditlhopha: - Bopa didiko tse pedi ka wulu (disete). - Ba latela ditaelo tsa morutabana ba baya dibadisi mo seteng nngwe le nngwe. - Kgobokanya maloko a ditlhopha go supa gore ke sete efe e e nang le dibadisi di le dintsi go feta e nngwe? (ntsi go) - Ke sediko sefe se se nang le dibadisi tse di mmalwa go feta se sengwe? (nnye go) - Ke sediko sefe se se nang le palo e e tshwanang ya dibadisi jaaka se sengwe? (lekana) **Dirisa dikgonngwa tse di halofo tsa tekatekanyopopegopedi (2-D) kgotsa ditshwantsho** Rulaganya sete ya ditshwantsho ka thulaganyo e e siameng sekao. **Setshwantsho sa sediriswa se le 1** | **Setshwantsho sa didiriswa tse 2** | **Setshwantsho sa didiriswa tse 3** | **Setshwantsho sa didiriswa tse 4** Rulaganya sete ya marontho ka thulaganyo e e siameng sekao.  Botsa dipotso jaaka “ke karata tsekedimo efe e e nang le didiriswa/marontho tse dintsi? Ke dipalo tsefe tse dintsi go feta jj 2?	Wulu /thapo Dibadisi 4	Letsatsi 1

Beke 17 KITSISO	Nako e tshitshintsweng go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutana(mosako) ka ± 30 metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
5.1 **Kgobokanya le go tlhaola didiriswa .** **5.2** **Dira kemedi ya didiriswa tse di kgobokantsweng le go tlhaola.** **5.3** **Tlhalosa o dire pegelo ka kgobokanyo le tlhaolo ya didiriswa**	• **Godisa tiregó ya dipalo tsa tshedimosetso** **Dirisa dikgonngwa tsa tekanotlhakoretharo (3-D)** - Letlelela barutwana go kgobokanya dithupana tse 9. - Tlhaola dithupana go ya ka tse dinnye le tse ditonna ka bogolo. **Thala kerafo go bontsha di newa tshedimosetso** **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Dira kerafo ya ditshwantsho tsa dithupana. - Barutwana bap aka dikotwana mo kerafong ya ditshwantsho go ya ka bogolo, go raya gore nnye le tonna.  • Motlotlo ka ga dipholo ka go botsa dipotso sekao “ke dikotwana tse kae tse dinnye? Ke dikotwana tse kae tse ditonna? Ke tsefe tse dintsi/mmalwa?	Barutwana ba dira kgobokanyo ya bone ya dikotwana Letlhare la tirwana la kerafo ya asetshwantsho. Morutabana o thala letlhare la A4 ka dikolomo tse di siameng tsa morutwana mongwe le mongwe.	Letsatsi 1

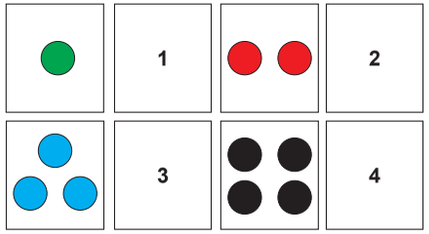
Beke 18 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1. **Bala dipalo**	Gatelela kitso e e amogetsweng e akaretsa dipalo 1,2,3 le 4. **Motlotlo:** Bala didiriswago fitlha ka 4 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 4. Balela kwa godimo o ipoeletsa 1-7 **Gatelela dikgopolo ka ga "bontsi' le "bonnye"** Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 4. **Metshameko ya go dirisa mmele** Letlelela barutwana: - Dira palo 1 mo moweng o dirisa monwana. - Barutwana ba tshwara tlhogo tsa bone gabedi. - Dumedisa barutwana ba le 4 ba ba farologaneng ka letsogo. - Tswala matlho a barutwana ka lesela, ba letlelele go supa palo 1 go fitlha ka 4 ka go phopholetsa Karata tsekedimo palo e e phopholediwang **Dirisa dikgonngwa ka go ruta ka ga didiriswa tsa tekanotlhakoretharo** Letlelela barutwana go: - Thala palo 1 mo mmung. - Batla didiriswa tse 3 tse di tshwanang. - Tlolela mo lifelong le le nosi ga 2 - Aga diphasele ka dikarolo tse 4 kgotsa tse dintsi.	Dipina tsa dipalo le diraeme Terei/lebokoso ka mmu Sete ya dikarata tsekedimo tse di phopholediwang Didiriswa barutwana Phasele ya dikarolo tse 4	Letsatsi 1
1.1. **Tšhelete**	• **Lemoga le go supa papetlana ya Tšhelete Aforika Borwa** **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo** - Lemosa barutwana ka ga diphologolo le ditshwantsho tsa dimela mo leding lengwe le lengwe. - Tiriso ya tšhelete e ka dirisiwa mo sekhutlwaneng sa Dikgono tsa botshelo, mo barutwana ba tshamekang lebenkele. Ka go tshameka barutwana ba tlhagisetswa tšhelete a a farologaneng.	5c,10c,20c,50c,R1,00,R2,00 le R5,00 (tšhelete a go tshameka le tšhelete a nnete)	Letsatsi 1

Beke 18 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.7 **Tlhakanyo le Tloso**	Rarabolola dipalo tsa go tlhakanya tse di neetsweng ka go Motlotlo le dipalo tsa go tlosa go fitlha ka 4 **Motlotlo:** Bala didiriswa go fitlha ka 4 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 4. Balela kwa godimo o ipoeletsa go tloga 1-7 **Gatelela dikgopolo ka ga "bontsi" le bonnye".** Opa diatla gantsi……..EMA Opa diatla a gago gannye. Morutabana o opa diatla go fitlha ka 4. **Metshameko ya go dirisa mmele** **Dikai:** 1. Morutabana o biletsa morutwana a le 1 kwa pele mo phaposing. O bitsa gape barutwanan ba le 3. O biditse barutwana ba le kae botlhe? 2. Morutabana o pakolola dibadisi tse 3. O oketsa ka e nngwe.gona le dibadisi di le kae mo tafoleng? 3. Barutwana ba ema mo pele ga phaposi. Morutabana o kopa morutwana o mongwe go dula fa fatshe. Ke barutwana ba le kae ba ba fa pele ga phaposi jaanong? 4. Tumelo o na le dipensele tse 4. O naya Xolani dipensele tse pedi. Tumelo o setse ka diphensele tse kae?	Dipina tsa dipalo le diraeme Barutwana Dibadisi Diphensele Dirisa didiriswa tse di farologaneng go go naya tlhaloganyo gore o dirisa jang ditogamaano tse di farologaneng	Letsatsi 1

Beke 18 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa , bapisa le thulaganyo ya dipalo**	• **Rulaganya le go bapisa didiriswa tse di kgobokantsweng o dirisa "ntsi go" le nnye go" le lekana le" go fitlha ka palo 4** **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** - Morutabana o neela leloko lengwe le lengwe la setlhopha dipalo e e riling ya dikerayone. - Maloko a setlhopha a tshwanetse go supa gore ke morutwana ofe yo o nang le dikerayone tse dintsi go fetisa bangwe? - Ke morutwana ofe yo o nang le tse dinnye go na le barutwana ba bangwe? - Ke barutwana bafe ba ba nang le dipalo e e tshwanang ya dikerayone? **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Rulaganya sete ya dikarata tsekedimo tsa dipalo tse di akaretsang palo 1-5 ka tatelano sekao  - Botsa dipotso jaaka "Ke karata tsekedimo efe e e nang le marontho a mantsi/didiriswa? - Ke dipalo efe e e nang le dipalo e e fetang jj 2?	dikerayone Lerontho le karata tsekedimo ya letshwaopalo	Letsatsi 1

Beke 18 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1 **Dipaterone tsa jeometeri**	• **Kopolola go le feletsa paterone e e neetsweng** **Kopisa paterone e e neetsweng** - Morutabana o dira paterone a dirisa Tšhelete e e tshamekang sekao" e.g. 5c, 5c, 5c, 10c, 10c,10c,20c, 20c, 20c Letlelela barutwana: - Kopisa dipaterone tse di farologaneng tse di bopilweng ke morutabana. **Feleletsa paterone e e neilweng** Letlelela barutwana: - Feleletsa dipaterone tse di farologaneng tse di bopilweng ke morutabana sekao. o 5c, 5c, 10c, 10 -------- o 5c, 10c,…… o 10c, ,20c…….jj.	Tšhelete ya motshameko kgotsa tšhelete a nnete(5c,10c,20c)	Letsatsi 1

Beke 19 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Gatelela kitso e e amogetsweng e e akaretsang dipalo 1, 2, 3 le 4.** **Motlotlo:**Bala didiriswa go fitlha ka 4 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 4. O balela kwa godimo a ipoeletsa go tloga ka 1-7 **Gatelela dikgopolo ka ga "bontsi" le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 4. **Metshameko ya go dirisa mmele** Morutabana o tsholetsa karata tsekedimo ya dipalo ka letshwaopalo, a re go barutwana: - Ke tlhoka basimane ba le kana - Morutabana o tsholetsa palo a re, ke tlhoka basetsana ba le kana. - Bopa ditlhopha tsa (tsholetsa palo 2). - Boeletsa tiro e ka dikarata tsekedimo tse di kwadlweng 1-4	Dipina tsa dipalo le diraeme Letshwaopalo le le akaretsang dipalo 1-4 sekao **3**	Letsatsi 1
1.16 **Dipalo tsa tlhogo**	- **Dipalo tsa tlhogo** Morutabana o tsholetsa karata tsekedimo ya palo 3, a botsa barutwana? - Ke palo efeng e e tlang mo pele ga 3? - Ke palo efeng e e latelang morago ga 3? - Boeletsa ka dipalo 1-4 - A lo ka bontsha ditsekedima e e nang le setshwantsho se se nang le palo e e tshwanang le marontho a a mo karateng?	Seta ya dikarata tsekedimo tsa ditshwantsho le marontho a a akaretsang dipalo 1-4	

Beke 19 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.16 **Dipalo tsa tlhogo**	**Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** - Morutabana o opa diatla ka morethetho le go bapisa dipalo ka bonya.Barutwana ba tlosa dibaga ba di supetsa sekao dibaga - Letlelela barutwana go baya 1,2,3 kgotsa 4 mo pele ga bone - Kopa barutwana go bontsha gore ba na le dibaga di le kae ka go bapisa dibaga tsa bone le dipalo e e tshwanang le e e mo karateng sekao dibaga tse 4 le letshwaopalo 4. - A ba batle morutwana yo o nang le dipalo e e tshwanang ya dibaga. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** Morutabana o tsholetsa karata tsekedimo ya lerontho ya palo 2 le go botsa barutwana - Go na le marontho a le kae mo karateng e? - Dipalo tse, di emela marontho a le kae? - Ke dipalo efe e e latelang morago ga dipalo e? - Go thala dipalo e e tshwanang ya marontho mo letlhare la pampiri.	Morutwana mongwe le mongwe o newa dibaga tse 4 Karata tsekedimo ya dipalo 1,2,3 le 4 Karata tsekedimo ya marontho 	

Beke 19 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.7 **Tlhakanyo le tloso**	• **O rarabolola ka go motlotlo dipalo tse di neetsweng tsa go tlhakanya le go tlosa dipalo tsa ditharabololo tse di fitlhang ka 4** **Metshameko ya go dirisa mmele** - Biletsa barutwana go ba le 3 kwa pele. Ba bale - Biletsa gape morutwana a le 1, ba bakae botlhe? 3 le 1®4 (tharo le nngwe e go naya 4) - Romela ba le 3,mo mmetsheng.Go na le barutwana ba le kae jaanong? Tlosa 1 mo go 4→3 Kgaoganya barutwana ka ditlhopha. Botsa dipotso tse di jaaka :: - O bona dinko di le kae mo setlhopheng sa gago? - Melomo e kae? - Mebele e kae? - Fa gare barutwana ba le babedi, go na le matlho a le kae? - Fa gare go barutwana le babedi, go na le maoto a le kae? **Dirisa dikgonngwa go ruta ka ga dipopego tsa tekatekanyotlhakoretharo (3-D)** Dikao: 1. Rraagwe Lindiwe o na le koloi.Koloi ya gagwe e na le maotwana a lekae? 2. Fa leotwana le tswile moya le ntshiwa, go sala maotwana a le makae? 3. Koko e na le dikokwana di le 4.Dikokwana di le pedi di nyelela.Go na le dikokwana di le kae ka koko jaanong? 4. Koko ya mosadi e bona dikokwana tsa yona tse pedi.E na le dikokwana tse kae jaanong?	Dibadisi Dirisa dithusathuto tse di farologanyeng go neela kakanyo go re o dirise jang ditogamaano Dibadisi	Letsatsi 1

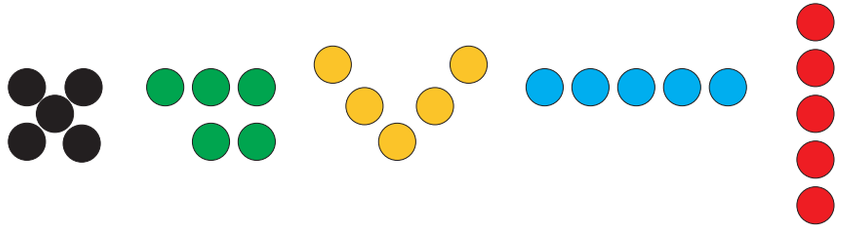
Beke 19 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, bapisa le go rulaganya dipalo**	• **Rulaganya le go bapisa didiriswa tse di kgobokantsweng go fitlha ka 4,o dirisa "ntsi go",nnye go le lekana le"** Metshameko ya go dirisa mmele - Morutabana o baya didiriswa tse di farologaneng mo godimo ga tafole sekao dikerayone tse 2, diboloko tse 4 tse di tshwanang, dithini tse 3, dibuka tse 2 Letlelela barutwana go: - Bala dipalo ya dikerayone le meteme/dithini. A go na le dikerayone tse dintsi go feta meteme/dithini? - Bala dipalo ya diboloko le dibuka. A go na le diboloko tse dinnye go na le dibuka? A go na le diboloko tse dintsi go feta dibuka? - Bala dibuka le dikerayone. A go na le dipalo e e lekanang ya didiriswa kgotsa nnyaa?	Dikerayone, diboloko, dithini, dibuka.	Letsatsi 1
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) - Letlelela barutwana go dula mo mmetsheng le go ba neela ka dibadisi - Morutwana mongwe le mongwe ba tshwanetse go nna le dipalo ya Dibadisi tse di farologaneng. - Letlelela barutwana go baya dibadisi fa pele ga bone. Morutabana o botsa barutwana: o Ke mang yo o nang le dibadisi tse dintsi thata? o Ke mang yo o nang le dibadisi tse di nnye? o K e barutwana bafe ba ba nang le dipalo ya Dibadisi tse di lekanang?	Dibadisi Morutabana o naya morutwana mongwe le mongwe palo e e farologneng ya Dibadisi tse di fitlhang ka 4	
3.3 **Dipopegotekano tlhakorepedi (2-D)**	**Dira le go feleletsa phasele ya gagwe ya dikarolwana tse 4** (Tsenyeletsa botsweretshi jwa pono) Letlelela barutwana: - Thala setswhantsho mo letlhare la pampiri ya A4. - Morutabana o thala mela mo morago ga setshwantsho sa morutwana. - Morutwana o segolola setshwantsho mo meleng e e theilweng - Morutwana o feletsa/aga malea ya gagwe.	Ditshwantsho tsa barutwana 	Letsatsi 1

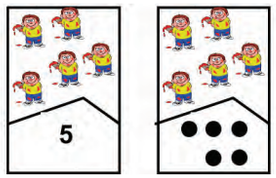
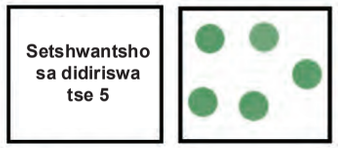
Beke 19 **Kitsiso**	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.1 **Nako**	• **Godisa temoso ya se se diragalang fa gare ga nako ya ja bosigo le nako ya go robala** (Tsenyeletsa setlhogo ka ga tshimologo ya kitso mo serutweng sa dikgono tsa botshelo) Letlelela barutwana go : - tlotla ka ga se ba se dirang fa ba sena go ja dijo tsa bosigo. - tlotla ka ga se se diragalang fa morago ga nako ya go ja dijo tsa bosigo. Morutabana o botsa: - '"A o tla sekolong mo mesong kgotsa mo bosigong?" - Fa o tsena kwa sekolong fa tshipi e sena go lela, a o tla bo o le thari kgotsa o fitlhile ka nako? - Letsatsi le kae bosigo?"	Ditshwantsho tse di supetsang se se diragalang go tloga ka nako ya dijo tsa bosigo go fitlha ka nako ya go robala  	Letsatsi 1
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) - Barutwana ba thala setshwantsho go supetsa tiragalo ka fa morago ga go ja dijo tsa bosigo. - O neela ka malea tse di bontshang tatelano ya ditiragalo kgotsa ditirwana.	Pampiri le dikerayone	

BEKE 20	Dirisa beke 20 go tsena mo bokoeng jwa dikgopolo kgotsa tlhaola dikgoreletsi mo go ithuteng.	
Diteng tsa serutwa	**Ditlhogo**	**Mokgwa wa go Lekanyetsa**
Dipalo, Ditiriso/ diopereshene le Kamano	**1.1** **Go balela**	Lekanyetsa go balela kwa godimoo ipoeletsa go fitlha go 7 (dipalopina, moribo o o tsenyeletsang go aga dipalokakanyo)
		Balela kwa morago le kwa pele (1-4)
		Tlhaloganya dikakanyo bontsi le bongwe" (o betsaganya diatla)
		Lemoga dipalo mo tirisong e e tlwaelegileng sekao, palo ya ntlo, aterese le rejisetara
		Tlhaola dipalotshwantsho le dikarata tsekedimo tsa dinkgolokwe
		Itse matshwao a 1, 2, 3 ,4
		Lemoga dipalofoko pedi,tharo,nne
		Tlhaloganya tsamaelano ya bongwe ka bongwe (Bathusi ba Motlotlo ka nako ya go ikhutsa)
		Tlhaola magareng ga bontsi, bonnye le lekana le ennye go 4
		Lemoga pharologano mo tšhelete ya tshipi a Aferika Borwa
	1.6 **Tharabololo ya dipalo tsa mararaane**	Dirisa dididriswa tse di ka kgonngwang Tlhalosa gore go inaganela ka mafoko ka ditshwantsho le dilo tsee di ka kgonngwang
	1.7 le 1.13 **Tlhakanyo le tloso**	Ka molomo rarabolola dipalo tsa go tlhakanya le go tlosa go fitlha 4
Dipaterone le Tiragatso	**2.1.** **Dipaterone tsa jeometeri**	Kopolola, godisa le go bopa dipaterone tsa gago (dilo, dipopego le tšhelete a tshipi)

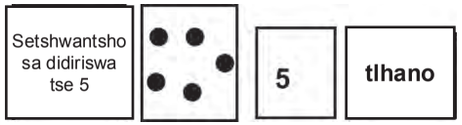
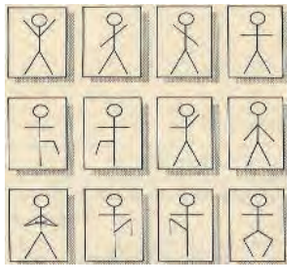
BEKE 20	Dirisa beke 20 go tsena mo bokoeng jwa dikgopolo kgotsa tlhaola dikgoreletsi mo go ithuteng.	
Diteng tsa serutwa	**Ditlhogo**	**Mokgwa wa go Lekanyetsa**
Boalo le Popego(jeometeri)	**3.1** **Maemo, kitsiso le dipono**	Tlhaloganya kemo ya dididriswa tse pedi kgotsa go amana le morutwana ka: Godimo ga fa tlase
	3.3 **Tekanotlhakorepedi (2-D) ya dipopego**	Aga bonnye dikarolwana tse 12 tsa malea
		Supetsa bokgoni jwa go farologatlosa magareng gam o" (lekanyetsa gape)
		Lemoga, tlhaola o neele dikhutlotharo maina bopa tikologo
		Tlhaloganya go sa fetogeng ga dikhutlotharo (bopa tikologo)
	3.2 **Tekanotlhakoretharo (3-D) ya didiriswa**	Bapisa gore ke dilo dife tse di neetsweng tse padi tse di leng telele, teletelele, khutshwane, khutshwakhutshwane
		Tlhaola dilo mo teng Bogolo, boleele le bokhutshwane
		Mebala, - (khibidu, serolwane, botala jwa legodimo,le botala jwa tlhago)
		Dipopego
		Aga ka diboloko tse agang
	3.4 **Tekano**	Lemoga mola wa bogare mo tikologong ya gago.
		O kgona go kgabaganya molagare
Tekanyo	**4.1** **Nako**	Tlhaloganya matsatsi a beke, dintlha tsa ngwaga, karata tsekedimo ya tsa bosa. (dipuo le moribo-lekanyetsa gape)
		Itse matsatsi a a bona a botsalo (lekanyetsa gae)
	4.2 **Boleele**	Farologanya magareng ga telele, kkhutshwane, bokhutshwane (karata tsekedimo ya bogodimo)
Tshedimosetso	**5.1** **Kgobokanya le tlhaola didiriswa.** **5.2** **Kemedi le didriswa tse di tlhaotsweng** **5.3** **Buisana le dira pego ka kgobokanyo yadidiriswa tse di tlhaotsweng.**	O kgona go kgobokanya, tlhaola, thala, bala le go anela (lokolola) dilo go ya ka dilo

KGWEDI-THARO 3 DIPALO MOPHATO WA R			
Beke 21	**Nako e e tshitshintsweng ya go ruta**		
Kitsiso	**Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Itsise bokao jwa palo 5** **Motlotlo:** Bala didiriswa go fitlha ka 5 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 5. Balela kwa godimo o ipoeletsa 1-10 **Gatelela go bala palokemotatelano**: Morutabana o pakolola didiriswa tse 3 mo moleng. O supa sediriswa santlha, sabobedi, saboraro. **Gatelela kgopolo ka ga "bontsi" le "bonnye"** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 5 Botsa gore o opile diatla gantsi/gannye.	Dipina tsa dipalo le diraeme Diraeme tsa go bala le dipina sekao."Ditshwene tse tlhano di tlola mo beteng". Didiriswa tse 3	Letsatsi 1
	Metshameko ya go dirisa mmele Rotloetsa barutwana go utolola palo ya 5 ka go: - Opa diatla ga 5. - Batlisisa gore ke barutwana ba le kae mo phaposing ba ba dingwaga di le 5.		

Beke 21 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.16 **Dipalo tsa tlhogo**	**Dipalo tsa tlhogo** - Morutabana o opa diatla ka moretheto le tshwantshisa dipalo palo 5 ka bonya sekao barutwana ba ntshe Dibadisi tse di lekanang le 5 le go di supetsa. - Barutwana ba pakolola Dibadisi tse 5, ba di baya mo moleng le go di bala - Morutabana o botsa: - Ke dipalo efe e e tlang pele ga 5? - Ke dipalo efe e tlang morago ga 4? - Fa o na le diapole di le 5, o naya yo mongwe diapole tse 2.O setse ka diapole di le kae? - Supetsa menwana e le 5. - O na le menwana e le kae mo leotong le le 1? **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo(3-D)** - Barutwana ba godisa bokaopalo ka go: - Dira dipalo 5 ka seloko ya go tshameka. - Sela matlhare a le 5. - Bala didiriswa le go di golaganya le Dibadisi. - Godisa temoso ya tshomarelo ya dipalo ka go Letlelela barutwana go pakolola Dibadisi di le tlhano kgotsa didiriswa ka tsela tse di farologaneng sekao  Fa ba bala dipalo ya Dibadisi, dipalo ga e amiwe ke bogolo jwa didiriswa,kgotsa maemo kgotsa e le mofuta o le mongwe sekao - Rulaganya ditalama di le 5, dipensele di le 5, dihula hupu di le 5,barutwana ba le 5 jalo jalo. - Di bale ka thulaganyo e e farologaneng sekao di bale di adilwe, di bapile, mo moleng kgotsa di pakilwe.	Dibadisi mo setshelong Seloko ya go tshameka Matlhare	

Beke 21 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhaolsa, bapisa le go rulaganya dipalo**	• **Godisa kgopolo le go rotloetsa barutwana go gopola dipalo ya ntlo, aterese le dipalo ya mogala** Tshameka motshameko o tshwana le: - Morutabana o Motlotlo dipalo ya ntlo, aterese kgotsa dipalo ya mogala ya morutwana. Dipalo ya morutwana kgotsa aterese e e tsamaisanang o a araba. - Fa o feleletsa lenaneotseno, morutabana a ka botsa dipotso tsa go tshwana le"a morutwana wa dipalo ya mogala 435-6256 o teng gompieno?" "Amorutwana yo o dulang kwa Mandela Drive 123 o teng gompieno?" - Barutwana ba dirisa karata tsekedimo ya letshwaopalo go paka dipalo ya bone ya ntlo kgotsa dipalo ya mogala ka tatelano, le fa ba sa kgone. - Diragatsa puisanpo mo mogaleng ka go tshameka motshameko.Barutwana ba leletsa mongwe yo o kgethegileng mogala. Tsenyeletsa botsweretshi jwa tiragatso ya serutwa sa dikgono tsa botshelo	Dipalo ya mogala e tshwanetse go nna dipalo ya motsadi kgotsa motlhokomedi le dipalo ya mogala wa lotheka. Lenaneo tseno Karata tsekedimo ya lethwaopalo kgotsa khateboto e tonna ya matshwaopalo Tshameka motshameko wa mogala	Letsatsi 1
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Morutabana o supetsa barutwana: - Phasalatso e e farologaneng mo ba ka bonang palo 5 sekao karata tsekedimo ya matsalo, kuranta, folayara jalo jalo - Karata tsekedimo ka marontho a le 5 le karata tsekedimo ka ditshwantsho di le 5 - A ba golaganye karata tsekedimo ya setshwantsho le karata tsekedimo ya marontho le dipalo ya Dibadisi kgotsa didiriswa - Dira diphasele tsa dipalo tse di akaretsang palo 5 sekao. 	Dikarata tsekedimo tsa matsalo Kuranta,dimakasine Karata tsekedimo ya marontho a le 5 Karata tsekedimo ya ditshwantsho tse 5 Didiriswa Dibadisi 	

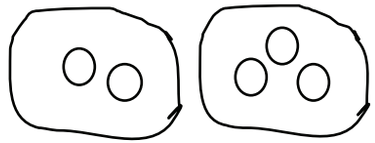
Beke 21	**Nako e e tshitshintsweng ya go ruta**		
Kitsiso	**Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.3 **Itse letshwaopalo le go lemoga leinapalo**	• **Itse letshwaopalo le go lemoga leinapalo le le akaretsang 5** **Motlotlo:**Bala didiriswa go fitlha ka 5 letsatsi le letsatsi Balela kwa pele le kwa morago go fitlha ka 5 Balela kwa godimo a ipoeletsa 1-10 **Metshameko ya go dirisa mmele** - Letlelela barutwana go dula mo sedikong. - Naya barutwana dipalo go ya ka paterone 1, 2, 3, 4, 5. 1, 2, 3, 4, 5. 1, 2, 3, 4, 5. - Botsa dipotso di tshwana le " ke mang o tla be e le dipalo ya bo5?"Ke mang yo o tla be e le dipalo ya bo 4? - O rarabolotse jang dipalo tse? - (Barutwana ba rarabolola palo ka tsela ya go diragatsa ba bonelapele dipalo e e latelang ka go balela kwa pele)	Dipina tsa dipalo le diraeme	Letsatsi 1
	Dirisa dikgonngwa ka go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) - Dirisa dikarata tsekedimo tsa phopholetso tsa dipalo tse di akaretsang 1 go fitlha ka 5. - Barutwana ba tswala matlho a bone le go phopholetsa dipalo ya 5 ba dirisa menwana fa gare ga matshwaopalo. Naya morutwana mongwe le mongwe dibadisi di le 5 le dikopi tse pedi tsa dipolasitiki kgotsa ditshegetsi tse pedi tsa mae - botsa barutwana: O kgona go rulaganya dibadisi ga kae ka tsela tse di farologaneng mo teng ga ditshegetsi?  kgotsa jalo jalo	Dikarata tsekedimo tsa dipalo tsa phophopletso, dipalo 5	

Beke 21 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Letlelela barutwana go: - Supa karata tsekedimo e e nang le ditshwantsho di le 5 mo go yona. - Supa karata tsekedimo ya marontho a 5 mo go yona. - Supa letshwaopalo 5 gongwe le gongwe mo phaposing. - Supa letshwaopalo mo karateng. Lemoga leinapalo mo karateng. - Golaganya dipalo ya dibadisi le leinapalo le letshwaopalo ka go paka dibadisi mo godimo ga setshwantsho le karata tsekedimo ya lerontho.	Dikarata tsekedimo ka ditshwantsho, marontho,letshwaopalo le leinapalo Dibadisi tse 5 	
3.4 **Tekano**	• **Gatelela mola wa kgolagano mo go wena ka go diragatsa tiro e e rotloetsang go kgaoganngwa ga mola wa bogare** **Metshameko ya go dirisa mmele** Letlelela barutwana go:: - Tshameka motshameko wa go latela moeteledipele, mo barutwana ba kopisang maemo go tsa mo karateng. - Tshameka motshameko wa go latela moeteledipele mo morutabana o supetsang maemo mme barutwana ba kopisa (akaretsa tiragatso mo barutwana ba supetsang kgaogano ya mola sekao ama lengwele la moja ka letsogo la molema) - Tshameka motshameko wa go latela moeteledipele mo morutwana a supetsang maemo, mme ba bangwe ba kopisa - Morutabana o supetsa motlolo wa naledi ”star jumps” le barutwana ba rotloediwa go diragatsa tiro e e tshwanang. **Dirisa dikgonwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Letlelela barutwana go: - Baya kgetsana ya dinawa mo molemeng, mojeng, mo pele le kwa morago ga mmele wa gagwe. - Dirisa letsogo la gagwe la molema le go baya kgetsana ya dinawa mo letlhakoreng la mmele wa gagwe wa moja. - Otlolola letsogo go kgabaganya mola wa gare. - Boeletsa tiro ka letsogo la moja. Tsenyeletsa tirwana ya thuto ya katiso ya mmele ya serutwa sa Dikgono tsa botshelo.		Letsatsi 1 Morago ga moo morutabana o diragatsa ka tsweletso ka nako ya go tshameka o gololosegile le ka nako ya ditirwana tsa ikatiso ya mmele

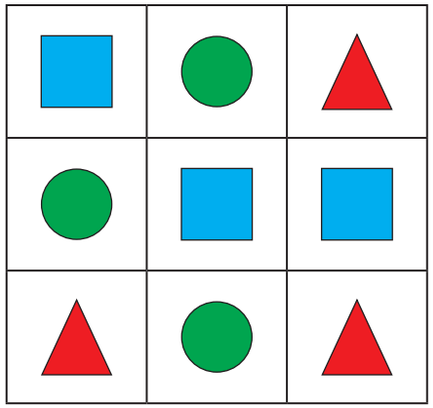
Beke 21 **Kitsiso**	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.2 **Boleele**	• **Fopholetsa le go lekanya boleele jwa didirswa tse di farologaneng o dirisa maoto,diatla, karolo ya thudi,ditoko jalo jalo.** **Metshameko ya go dirisa mmele** Letlelela barutwana go: - Bapisa boleele jwa maoto le diatla a bone. - Barutwana ba fopholetsa gore ke sediriswa sefe se se telele le gore ke sefe se se khutshwane ka go di lekanya ka maoto kgotsa diatla sekao tafole kgotsa karolo ya peipe e e nosetsang go tswa kwa gae. - Fopholetsa gore ke sediriswa sefe se se telele sekao tsela ya maoto kgotsa mola wa ditena. - Letlelela barutwana go fopholetsa gore ke efe e e leng telele sekao phaposi kgotsa phaposi ya barutabana ya go ikhutsa? - Botsa potso e tshwana le : Ke efe e e telelenyana/telele thata pensile kgotsa karolo ya thudi jalo jalo	Didiriswa tsa boleele jo bo farologaneng, tse di ka lekantshiwang ka letsogo kgotsa ka leoto sekao rulara,tafole,kgoro,mola wa ditena, phaposi, laeborari jalo jalo.	Letsatsi 1

Beke 22 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Gatelela kitso e e amogetsweng e akaretsang palo 5** **Motlotlo :** Bala didiriswa go fitlha ka 5 letsatsi le letsatsi Balele kwa pele le kwa morago go fitlha ka 5 Balela kwa godimo ba ipoeletsa 1-10 **Gatelela dikgopolo ka ga "bontsi" le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 5 Botsa gore o opile diatla gantsi/gannye. **Metshameko ya go dirisa mmele** Rotloetsa barutwana go utolola palo 5 ka go: - Bontsha menwana e le 5 mo moyeng. - Batla didirswa tse 5 tse di khibidu, botala jwa loapi, serolwana, mmala o tala. - Batla didiriswa tse 5 tse di tshwanang le sediko,khutlonne, khutlotharo. **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Letlelela barutwana go godisa bokaopalo ka go: - Latela dibuka tse 5 mo sekhutlwaneng sa dibuka. - Aga terio ka tlhakorentsi e e nang le difatlhego di le thataro tse di tshwanang, difatlhego tsotlhe di khutlo-nne tsepa (cube)di le 5 kgotsa diboloko tsa go aga..	Dipina tsa dipalo le diraeme sekao. Diraeme tsa go bala le dipina sekao "1,2,3,4,5 once I caught a fish alive" Dibadisi dibuka Diboloko tsa go aga kgotsa tlhakore nitsi e e nang le difatlhego di le thataro tse di tshwanang, difatlhego di khutlo-nne tsepa (cube) Diboloko tsa go aga	Letsatsi 1

Beke 22 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.7 **Tlhakanyo le Tloso**	• **Rarabolola dipalo tsa mafoko ka go Motlotlo (dipalo tsa kgangkhutswe) le go tlhalosa ditharabololo tsa bone tse di akaretsang palo** **Metshameko ya go dirisa mmele:** - BiletsLetlelela barutwana go : le 5 kwa pele. Kgaoganya ditulo tse 5 magareng ga bone. - Tlosa setilo se sengwe.Jaanong kgaoganya ditulo fa gare gLetlelela barutwana go : le tlhano.Morutwana a le mongwe o sala kwa ntla ga setilo. - Simolola ka 5.Balela kwa morago. Simolola ka 3.Bala go fitlha ka 5.Simolola ka 1.Bala go fitlha ka 4 jal jalo. **Dirisa dikgonngwa ka go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** **Dikai:** 1. Supetsa monwana o le 1 mo seatleng se le sengwe le menwana e le 4 mo seatleng se sengwe. Go na le menwana e le kae yotlhe? 2. Sam o na le dibisikiti di le 4. Mpho o mo naya bisikiti e le 1 gape. Sam o na le dibisikiti di le kae tsotlhe? 3. Tiny o na le maje a le 5 o naya Mia maje otlhe a le 5.Mia o na le maje a le kae? 4. Jan o na le dimabole di le 5, o latlhegelwa ke tse 2. O na le dimabole di kae tse di setseng? 5. Katse e le nngwe e na le ditsebe di le pedi,dikatse tse pedi di na le ditsebe di le kae? 6. Pina, “Mabotlole a matlhano a botala jwa loapi a akgeilwe mo leboteng a felela ka 0” (Supa gore dibotlolo di a fokotsega)	Dibadisi Dimabole Pina	Letsatsi 1

Beke 22 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa , bapisa , le Thulaganyo ya dipalo**	• **Bapisa gore ke didiriswa dife tse pedi tse di kgobokantsweng tse di ntsi go, nnye go,lekana le go fitlha ka palo 5** **Motlotlo:** Bala didiriswa go fitlha ka 5 letsatsi le lestatsi Balela kwa pele le kwa morago go fitlha ka 5 Balela kwa godimo o ipoeletsa 1-10 **Gatelela dikgopolo ka ga "bontsi" le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 5 Botsa gore o opile diatla gantsi/gannye **Metshameko ya go dirisa mmele** - Morutabana o baya didiriswa tse di farologaneng mo godimo ga tafole sekao dibikiri tse 2, diboloko tse 5 tse di tshwanang, dithini tse 4, dibuka tse 2. Letlelela nbarutwana go: - Bala dipalo ya dibikiri le dithini.a go na le dibikiri dikle dintsi go feta dithini? - Bala dipalo ya diboloko le dibuka. A go na le dibuka tse dinnye go na le diboloko?A go na le diboloko tse dintsi go feta dibuka? - Bala dibuka le dibikiri.A ke didiriswa tse di lekanang kgotsa nnyaa?	Dipina tsa dipalo le diraeme Dibekere tse 2, diboloko tse di tshwanang tse 5,meteme/dithini tse 4 ,dibuka tse 2	Letsatsi 1
	Dirisa dikgonngwa ka ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) - Barutwana ba dula mo mmetsheng le go dira dintlhaga tse pedi ka ulu. - Morutabana o neela ka taelo sekao barutwana ba baya Dibadisi tse pedi mo teng ga sentlhaga le tse 3 mo go se sengwe. Ke sentlhaga sefe se se nang le dibadisi tse dintsi? Ke sentlhaga sefe se se nang le tse dinnye? - Morutabana o biletsLetlelela barutwana go : le 5 kwa pele.O baya dibaga tsa mmala o o farologaneng mo diatlang a mongwe le mongwe. - Ke letsogo lefe le le nang le dibaga tse dintsi? - Ke letsogo lefe le le nang le dibaga tse dinnye? **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o supetsa dikarata tsekedimo tse pedi ka dipalo e e farologaneng le ya marontho le ditshwantsho. - Letlelela barutwana go tshwantshisa dikarata tsekedimo le ditshwantsho le marontho le go supa dikgopolo tse "dintsi go",nnye go" le tse di lekana le"	Morutwana mongwe le mongwe o newa dikarolo tse pedi tsa ulu le dibadisi tse 6  Dibaga Karata tsekedimo ya ditshwantsho le marontho a a akaretsang dipalo 1 go fitlha ka 5	

Beke 22 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1 **Dipaterone tsa jeometeri**	• **Gatelela go kopisiwa ga paterone e e neetsweng** **Metshameko ya go dirisa mmele** - Dira ka ditlhopha o kopise paterone e e neetsweng sekao setilo,morutwana,setilo,morutwana. - Barutwana ba babedi,setilo se le sengwe,barutwana ba le babedi, setilo se le sengwe. - Itaya leoto le le lengwe, itaya le lengwe, tlolela kwa pele,tlolela kwa morago. - Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) - Morutabana o bopa paterone a dirisa Dibadisi le dikhurumelo tsa dibotlolo sekao Dibadisi, sekhurumelo sa botlolo. Barutwana ba kopisa paterone. - Tsamya ka bonya,ka bonya, ka bonako,(Morutabana o Motlotlo a ntse a tsamaya). Barutwana ba kopisa paterone. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Kgaoganya barutwana ka ditlhopha di le tlhano.Naya setlhopha sengwe le sengwe ditshwantsho go dira dipaterone. - Barutwana ba bopa paterone ka ditshwantsho ba dirisa ditshwantsho tse di neetsweng sekao o Namune,apole,apole,namune. o Dirurubele,dirurubele,dinotshe,dinotshe. Tirwana e, e ka tsenyelediwa mo botsweretshing jwa pono mo serutweng sa dikgono tsa botshelo.	Barutwana ditilo Dibadisi Dikhurumelo tsa dibotlolo Setshwantsho sengwe le sengwe se se leng teng Gatisa ditshwantsho go netefatsa gore go na le ditshwantsho tse di lekaneng.	Letsatsi 1

Beke 22 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopegotekano tlhakorepedi (2-D)**	**Gatelela kitso e e amogetsweng mo bekeng ya bo6 e e akaretsang khutlonne** • **Tsenyeletsa thuto ya ikatiso ya mmele mo serutweng sa dikgono tsa botshelo** **Metshameko ya go dirisa mmele** - Thala khutlonne mo lifelong la go tshameka le go letlelela barutwana go tlola mo khutlonneg.letlhakoreng le lengwe, matlhakore a mabedi, matlhakore a mararo, matlhakore a mane-matlhakore otlhe a tshwana" - Letlelela barutwana go robatsa ditlhogo go bapa le menwana ya morutwana ya barutwana, ba robala mo bojannyeng/fatshe/mmetsheng go bopa khutlonne e tonna - Letlelela ditlhopha tsa barutwana go robala mo mmetsheng le go bopa dikhutlonne tse di nnye **Dirisa dikgonngwa go ruta ka ga didiriswa tekanotlhakoretharo (3-D)** - **Motshameko:** Morutabana o thala gerete mo lefelong la motshameko. - Baya dipopego tsa tota sekao dipopego tsa Logi kgotsa setshwantsho popego mo bolokong nngwe le nngwe. - Morutabana o bitsa popego.. - Barutwana ba latlhela kgetsana ya dinawa mo bolokong e e tsamaisanang le boloko e e biditsweng **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** Barutwana ba farologanye magareng ga bogolo le mmala wa dikhutlonne tse morutabana a di bakaantseng. Letlelela barutwana go: - Supa dikhutlonne go ya ka bogolo jo bo farologaneng, ba bue gore ke dikhutlonne dife tse ditonna thata, ke tsefe tse dinnye thata, le gore ke tsefe tse di mo magareng ka bogolo.. - Supa mebala ya dikhutlonne tse di farologaneng. **Tlhaola didiriswa go ya ka popego,bogolo le mmala** - Tlhaola didiriswa tse di farologaneng go ya ka mmala le popego	Khutlonne fa fatshe  Kgetsana ya dinawa Dikhateboto tse ditonna tse 2 tsa dikhutlonne,e le nngwe e botala jwa loapi le e le nngwe ya mmala o motala. Dikhateboto tse dinnye tse 2 tsa khutlonne, e le nngwe e botala jwa loapi,le e le nngwe ya mmala o motala Dikhateboto tse 2 tsa khutlonne tse dinnye thata, e le nngwe e le botala jwa loapi le e le nngwe ya mmala o motala	Letsatsi 1

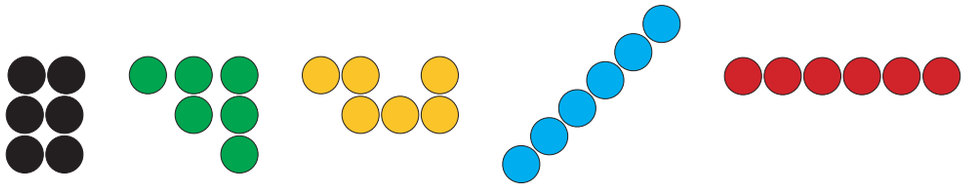
Beke 23	**Nako e e tshitshintsweng ya go ruta:** **Tirwana e le nngwe ya phaposi e e baakatsweng e kaelwa ke morutabana (mosako) ± 30 Metsostso ka letsatsi ± 5 metsotso ditirwana tsa dipalo mo bekeng.**		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Sebaka se se lekanyeditsweng**
1.1 **Didiriswa**	• **Tlaleletsa kitso e e ba e amogetseng e e akaretsang dipalo 1 go fitlha go5** **Motlotlo: Bala dilo letsatsi le letsatsi go fitlha go** 5. Balela kwa pele le kwa morago go fitlha go 5. Go balela kwa godimo o boeletsa 1-10 **Tlaleletso ya dikakanyo tsa bontsi le bonnye.** Opa diatla gantsi…EAMA . Opa diatla go le gonnye. Morutabana o opa a gwge ga 5 Botsa dipotso gore ke palo e kae e e phaphathillweng gantsi \ nnye. **Metshameko ya go dirisa mmele** Tlaa re tshameke motshameko: - Morutabana o tshameka sediriswa. - Barutwana ba dikologa - Fa moropa o ema, morutabana o bitsa palo magarng ga 1 le 15 - Barutwana ba ithulaganya ka ditlhophana sekao, morutabana o bitsa palo 3, barutwana ba ithulaganya le ditlhotshwana tsa 3 **Dirisa ditekatekanyetso tsa dipopego tse tharo (3) tse di kgonngwang** - Morutabana o baa diloka mmotwana mo godimo ga tafole.letlelela barutwana ba fopholetse gore ke dilo di le kae mo mmotwaneng ole. - Di balele morago ga moo.	Didiriswa tse di atlenegisitsweng Moropa	Letsatsi 1 Tllhaola ditirwana tse di rileng

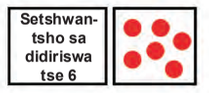
Beke 23	**Nako e e tshitshintsweng ya go ruta:** **Tirwana e le nngwe ya phaposi e e baakatsweng e kaelwa ke morutabana (mosako) ± 30 Metsostso ka letsatsi ± 5 metsotso ditirwana tsa dipalo mo bekeng.**		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Sebaka se se lekanyeditsweng**
1.6 **Bothekeniki jwa go rarabolola mathata a dipalo**	**A re tshameke motshameko:** Morutabana o thala llere ya dipalo fa fatshe mo lebaleng .Dipalo tse di mo llereng di emetse dipalo tsa dintlo tse barutwana ba nnang mo go tsona. Barutabana ba tlhopha barutabana b aba dirisang go balela ka moribo ba nnela taelo: - Ka nako tsotlhe ema mo go lefala(0) kgotsa simolola mo go lefela. Supetsa lefela (0) Supetsa gore lefela (0) le raya eng? (Ga go sepe) gore go boleele sentlentle go simolola gongwe 1. - Ka metlha bala o tsamaya. - Morutabana o bolelela barutwana gore: o mo ntlong ya bo 2, ke ntlo ya palo ya 2?" - Ditaelo tse dingwe e ka nna " tsamaela go ntlo ya 3, tsamaela morago go ntlo ya dipalo ya 2 : Tsamaela pele kwa ntlong ya dipalo ya 4." - Morutabana a re: "ke mo ntlong ya 3, ke ntlo efe e e tlang morago ga ya me ?" - Tsamaelo go ntlo ya 4. Tsamaya palo e le 1 kwa pele. Tsamaya dipalo tse 2 kwa morago. - Ema mo gare ga ntlo ya palo ya 3 le ya palo ya 5.	<table><tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr></table> Moribo wa go bala: 1, 2, 3, 4, 5, Fa ke tshwara tlhapi 6, 7, 8, 9, 10 Ke e tlogela go tsamaya (tshaba)	
1.4 **Tlhalosa, bapisa le thulaganyo ya dipalo.**	• **Dirisa tlhano (5) mo tirisong e e tlwaelegileng** Gore ba godise tlhaloganyo ,rotloetsa barutwana go: - Go thuba ka tllhogo dipalo tsa mogala tsar re kgotsa mme . - Go ithuta ka tlhogo, aterese ya kwa gae. - Mogala/mogala wa letheka e tshwanetse go boeletswa ka nako ya go bitsa rejiseta ya letsatsi le letsatsi	Mogala wa mme kgotsa rre le dipalo ya mogala wa rre le aterese ya ntlo	Letsatsi 1
3.2 **Didiriswa tsa tekatekanotlha-koretharo 3-D**	• **Aga o dirisa dilo tsa ditekanyetso tsa dipopego tse tharo tse di kgonngwang .** Letlelela barutwana go: agelelel mgo tswa mo morutabaneng, sekao. O neela ditaelo tse di latelang : - Aga terio e enang le boleele jwa ya me. - Aga terio e e nang le bokhutshwane go ya me - Aga torio e e nang le bogodimo go ya me. - Letlelela barutwana go : age dikago tsa bona ka go kopolola mo setshwantshong se se neetsweng.	Ditena tse di agang/ Lego ditena Didiriswa dingwe tsa go aga.	Letsatsi go tswelela

Beke 23	**Nako e e tshitshintsweng ya go ruta:** **Tirwana e le nngwe ya phaposi e e baakatsweng e kaelwa ke morutabana (mosako) ± 30 Metsostso ka letsatsi ± 5 metsotso ditirwana tsa dipalo mo bekeng.**		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Sebaka se se lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	"Latela ditaelo tsa go simolola dipono tsa go ya kwa morago le go ya kwa" **Metshameko ya go dirisa mmele** - Ka go simolola, gatelela,kitso e ba e boning mo bekeng ya 8.		Letsatsi 1
	Go dirisa ditekanyetso tsa dipopego tse tharo tse di kgonngwang - Thala tshekeletsaa e kgolo, khutlotharo, kgotsa khutlonne mo letlhare la pampiri o e bee fa fatshe\ fulurung. - Letlelela barutwana go: ba tsamaise koloi ya go tshameka mo meleng, barutwana ba go bolelele gore ba tsamaela ntheng efe. Koloi e tsamaela (kwa pele le kwa morago) dirisa letsogo la moja le la molema o dirisa seatla sa molema le moja.	Thalo tsa dipopego tsa dikarolwana tsa pampiri. Koloi ya go tshameka	
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) - Letlelela barutwana go: itemogele dipono tsa go ya kwa pele \ kwa morago ka go supetsa ntlha mo setshwantshong, seka: ntlha e koloi e tsamaelang kwa go yona, ntlha e motho a tsamaelang kwa go yone.	Ditshwantsho tse di supetsang ntlha. Sekao. Ntlha e koloi e tsamaelang kwa go yona. Ntlha e kmotho a tsamaelang tteng.	

Beke 23	**Nako e e tshitshintsweng ya go ruta:** **Tirwana e le nngwe ya phaposi e e baakatsweng e kaelwa ke morutabana (mosako) ± 30 Metsostso ka letsatsi ± 5 metsotso ditirwana tsa dipalo mo bekeng.**		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Sebaka se se lekanyeditsweng**
4.2 **Boleele**	**Bapisa dikgonngwa le thulaganyo ya didiriswa go dirisiwa tltlofoko e maleba go tlhalosa boleele** • **Fopholetsa boleele jwa didiriswa tse di fapaaneng.** **Metshameko ya go dirisa mmele** - Barutwana ba ithulaganya go tswa go yo mongwe go fitlha go yo motelele.Bapisa boleele jwa bona ka boleele jwa ditsala tsa bona. - Tshameka “Sala moeteledipele morago” metshmeko. Yo moleele o diragatsa fa ba bangwe fa morago ga me bam o kopisa. - Fetolela mola gape yo mokhutshwane e nne moeteleipele. Barutwana ba bapisa diatla le maoto a bona go bona gore ke a ga mang a matelele le a a makhutshwane. Fopholetsa o be o lekanyetse: - Barutwana ba fopholetsa gore ke selo se se fe se se leele le gore ke se se fe se sekhutshwane sekao.boleele jwa tafole kgotsa dikarolwana tsa thapo. - Fopholetsa gore ke selo se se feng se se leele le se sekhutshwane sekao ; pensile kgotsa dipensele tsa mafura.. - Tlogela barutwana go iteka gore ke dilo tse dife tse di tla nnang tse di leele go di feta sekao. Matlhaka a senotsididi a 2 a adilwe fa fatshe ka go lekalekana kgotsa dipensele di adilwe ka go lekalekana.. - Botsisa dipotso tse di jaaka :Ke efe e telele\ e telele go di feta, pensile kgotsma karolwana ya thapo ?”jalo, jalo. - Ke tafole ef e e leng kgakala kgalkala go tswa motafoleng ya barutabana. - Ke dipensele tse kae tse di ka lekanang mo letlhakoreng le le telele le le ka lekanang tafole ya morutabana? - O tlhoka disetepe tse kae tse di ka go isang kwa mojakong - Ke mabokiso a ma kae a mokgwaro , tladitswe ka mmu wa motlhaba? - Ke dikopi di le tsa mae di tletse ka metsi tse di ka tlatsang galase e? - Mo re na le barutwana le ditulo tse tharo. - Ke ditulo tse kae tse re di tlhokang?	Didiriswa tse di farologaneng jaaka, phensele, pensile tsa mebala, karolwana ya mogala, tafole,buka, matlhaka a go nwa. Jalo jalo.	Matsatsi a mabedi (2) kgotsa Tlhopha fela ditirwana tse dinnye.

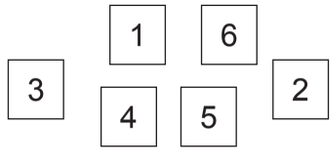
Beke 24 **Kitsiso**	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Itsise bokao jwa palo 6** **Motlotlo:**Bala didiriswa go fitlha ka 6 letsatsi le letsatsi Balela kwa pele le kwa morago go fitlha ka 6 . Balela kwa godimo o ipoeletsa 1-10 **Gatelela palokemotatelano:** Morutabana o paka didiriswa tse 3 mo moleng. Supa sediriswa sengwe le sengwe o ntse o bala ya ntlha,ya bobedi,ya boraro Gatelela dikgopolo ka ga “bontsi” le bonnye” Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 6 Botsa gore o opile diatla gantsi/gannye **Metshameko ya go dirisa mmele** Letlelela barutwana: - Bala go fitlha ka 6 a ntse a palama matlhatlhogo. - Thala palo 6 mo mmung le go tsamaya/tlola ka leoto le lengwe. - Opa diatla ga 6. - Lemoga dipalo 1 go fitlha ka 6 tsa sete ya matshwaopalo a matonna. - Pakolola dipalo ya gagwe ya ntlo kgotsa dipalo ya mogala a dirisa karata tsekedimo ya letshwaopalo e tonna.	Number songs and rhymes. Dira sete ya gago e tonna ya matshwaopalo, tse bana ba kgonang go di tshwara. Ba ka nna ba ithuta dingwaga tsa bone, dipalo ya ntlo kgotsa dipalo ya motsadi ya mogala wa lotheka le tse dingwe tse dintsi. Yona sete ya dipalo tse, e ka dirisiwa go lemoga dipalo le go dip aka ka tatelano.	Letsatsi I

Beke 24	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) Bala didiriswa tse di mo phaposing. Letlelela barutwana: - Botsa dipotso tse di tshwanang le:: “ - Ke dipalo efe e e latelang morago ga tharo, ke dipalo efe e e tlang ka fa morago ga 5 jalo jalo?’” - Morutabana o baya didiriswa mo thotong e e mo tafoleng. Letlelela barutwana go: fopholetse gore didiriswa tse di mo thotong e e mo tafoleng di kae. Morago o di bale. - Godisa temogo ya tshomarelo ya dipalo ka go letlelela barutwana go paka Dibadisi di le thataro kgotsa didiriswa tse di farologaneng sekao .  Fa o bala, dipalo ya didiriswa ga e amiwe ke bogolo kgotsa maemo kgotsa ke tsa mofuta o o tshwanang.sekao: - Rulaganya ditalama tse 6, dipensele 6, dihula hupu tse 6,barutwana ba le 6 jalo jalo. - Di bale ka thulaganya e e farologaneng sekao di bale di adilwe, di bapile, mo moleng kgotsa di pakilwe. Kgaoganya barutwana ka ditlhopha tse thataro. Naya setlhopha diboloko tsa go aga tse thataro. Letlelela ditlhopha: - Bala diboloko tsa bone. - Aga terio ka diboloko ya bone ka diboloko tse 6. Rotloetsa barutwana go bala ditene fa ba ntse ba aga tori. - Morutabana o tsamaya go tswa go setlhopha sengwe le sengwe le go tshwaya ditori ka karata tsekedimo ya dipalo. Barutwana ba bala dipalo ya ditori. Boeletsa seno makgetlho a mantsi. - Tlhpa morutwana go latlhela taese. O netefatsa gore morutwana mongwe le mongwe o bona taese. Barutwana ba bala dipalo ya marontho le go supa tori e e tsamaisanang le yona..	Didiriswa mo phaposing le mo tikologong. Dirisa dithusa-thuto tse di farologaneng go go naya dikakanyo gore o dirisa jang ditogamaano tse di farologaneng. Morutwana a le mongwe o newa diboloko tse 6 tsa go aga	

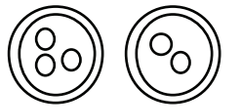
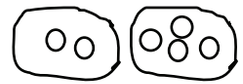
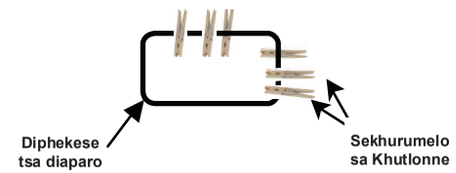
Beke 24 **Kitsiso**	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.3 **Matshwapalo le dipaloina**	• **Itse letshwaopalo le go lemoga leinapalo le le akaretsang palo 6** **Motlotlo:** Bala didiriswa go fitlha ka 6 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 6. Gatelela ddikgopolo ka ga "bontsi le bonnye". Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 6 Botsa gore o opile diatla gantsi/gannye **Metshameko ya go dirisa mmele** - Thala dipalo 6 mo mmung le go Letlelela barutwana go tsamaya go bapa le dipalo. - Thala dipalo 6 mo mmung, mo moyeng. - Bopa dipalo 6 ka seloko ya go tshameka. - Letlelela barutwana go bonelapele gore go tlhokagala a le kae go bopa dipalo 6 ka mebele ya bone. Ba bopa 6 ka mebele ya bone. **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** - Baya thoto ya didiriswa mo godimo ga tafole. Tshameka ka dipalo 1 go fitlha ka 6 sekao. - Letlelela barutwana go phopholetsa gore go na le didiriswa di le kae?. - Bala didiriswa..	Dipina tsa dipalo le diraeme Didiriswa tse 6	**Letsatsi 1**
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) - Supa go tswa mo tlhakatlhakanong ya dikarata tsekedimo, dikarata tsekedimo tse di nang le ditshwantsho di le 6 mo go tsona le go di golaganya le dipalo e e tshwanang ya Dibadisi. - Supetsa dikarata tsekedimo tsa ditshwantsho tse 6 le go di golaganya le dipalo e e tshwanang ya marontho le Dibadisi. - Supetsa dikarata tsekedimo tsa marontho a 6 le go di golaganya le letshwaopalo le dipalo e e tshwanang ya Dibadisi. - Supa go tswa mo dikarateng tse di farologaneng tse di kwadilweng leinapalo thataro mo go tsone le go di golaganya le letshwaopalo le dipalo e e tshwanang ya Dibadisi.	Setshwantsho le karata tsekedimo ya marontho a akaretsang dipalo 6 sekao.  Dibadisi kgotsa didiriswa tsa tekanotlhakoretharo(3-D) 	

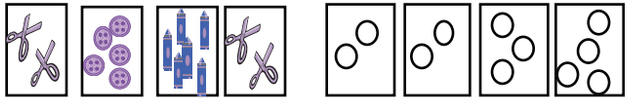
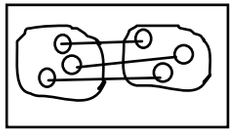
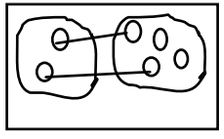
Beke 24 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.13 **Tlhakanyo le Tloso**	• **Rarabolola ka go Motlotlo dipalo tse di neetsweng tsa go tlhkanya le go tlosa dipalo tsa dikarabo tse di fitlhang ka 6.** **Motlotlo**: Bala didiriswa go fitlha ka 6 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 6. Botsa potso gore ke dipalo efeng ya kopo ya diatla e e leng ntsi/nnye. **Metshameko ya go dirisa mmele** **Dikao:** 1. Morutabana o biletsLetlelela barutwana go: le 3 kwa pele. Barutwana ba ba a ba bala. Morutabana o bitsa gape ba le 2 le go botsa: barutwana botlhe ba ba kae?" 3 le 2→5 (morutabana a re 3 le 2 e go naya 5) 2. Morutabana o pakolola ditulo tse 2.O oketsa ka tse 2.Go na le ditulo tse kae jaanong? 2 le 2 → 4 3. Morutabana o tsholetsa seatla se le sengwe. A re"bala menwana ya me, fa ke shuba monwana wa kgonope, o bona menwana e le kae? 5 o tlosa 1→4. 4. Letlelela barutwana go bala menwana ya seatla sa bone se le sengwe. Shuba monwana wa kgonope. O bona menwana e le kae? 5 o tlosa 1→4 the learners count the fingers on one of their hands. Hide your thumb; how many fingers do you see? 5 take away 1 → 4	Dipina tsa dipalo le diraeme. Barutwana Ditulo	
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo(3-D) LetlelelLetlelela barutwana go : pakolole diadisi le go dira se se latelang: - Morutabana o naya morutwana mongwe le mongwe Dibadisi di le 6. - Morutabana o naya ditaelo mme barutwana ba araba sekao pakolola dibadisi di le 2, oketsa ka tse 3. - Di kae tsotlhe? 2 le 3→ 5. - Bala dibadisi tse 4, balela kwa pele ka tse 2 go tloga ka 4. O na le tse kae jaanong? 4 and 2 → 6. - Bala dibaga tsotlhe tse o nang le tsone. Fa o fitlha dibaga tse pedi mo seatleng sa gago, o bona dibaga di le kae? 6 tlosa 2 → 4.	Dibaga kgotsa Dibadisi.	

Beke 24 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.13. **Tlhakanyo le Tloso**	• **Rarabolola ka motlotlo dipalo tsa mafoko tse di akaretsang palo 6** **Motlotlo**: Bala didiriswa go fitlha ka 6 letsatsi le letsatsi. Balela kwa pele le kwa morago go fitlha ka 6. Gatelela dikgopolo "bontsi le bonnye". Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 6 Botsa gore o opile diatla gantsi/gannye	Dipina tsa dipalo le diraeme	Letsatsi 1
	Dirisa dikgonngwa tsa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) **Dikai:** 1. Mpho o na le dikuku di le 4 .Peter o mo naya gape tse 2. Mpho na le dikuku di le kae tsotlhe? 2. Beauty o na le dipopisi di le 3 le Martha o na le tse 2 dipopisi. Ke mangy o o nang le dipopisi tse dintsi? Tsa ga Beauty di feta tsa ga Martha ka tse kae? 3. Go na le dinonyane tse 5 mo terateng,tse 2 di afoka.Go setse dinonyane tse kae? 4. Patrick o na le dikoloi tse 6 tsa go tshameka. Tiny o na le tse 4. Tiny o na le dikoloi tsa go tshameka tse kae? Tiny o na le dikoloi tsa go tshameka tse dinnye tse kae go na le Patrick? 5. Ngwana yo mongwe o na le nko e le nngwe. Bana ba bararo ba na le------- 6. Ngwana yo mongwe o na le maoto a mabedi.Bana ba bararo ba na le……. 7. Ngwana yo mongwe o na le diatla a le mabedi.Bana ba babedi ba na le….. 8. Ngwana yo mongwe o na le molomo o le mongwe.Bana ba bararo na le…..	Dibadisi Dirisa dithusa-thuto tse di farologaneng go go naya kakanyo ya gore o dirisa jang ditogamaanao tse di farologaneng.	
3.2 **Didiriswa tsa tekanotlhakoretharo 3-D**	• **Aga kago ya tekanotlhakoretharo (3-D) go tswa mo moakanyetsong kgotsa mo karateng ya setshwantsho** Letlelela barutwana: - Aga kago go tswa mo moakanyetsong kgotsa setshwantshong. - Barutwana ba dirisa thudi go šomela dibaga go ya ka tatelano ya setshwantsho se se neetsweng.	"Dipopego tsa Logi"Diboloko tsa bokgoni Sediriswa sengwe le sengwe sa go aga Dibaga,thudi ya setlhako Dikarata tsekedimo tse di farologaneng tse di supetsang mothalo wa tatelano ya dibaga	

Beke 25 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa.**	• **Gatelela kitso e eamogetsweng mo dibekeng tse 24 e e akaretsang palo 6** **Motlotlo:** Bala didiriswa go fitlha ka 6 letsatsi le letsatsi. Baela ka pele le kwa morago go fitlha ka 6. Balela kwa godimo o ipoeletsa 1-10 **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 6 Botsa gore o opile diatla gantsi/gannye	Dipina tsa dipalo le diraeme	Letsatsi 1
	Metshameko ya go dirisa mmele A re tshameke motshameko: Morutabana o baya mo fatshe khateboto e tonna ya motshameko ya dipopego palo kgotsa dikarata tsekedimo tse di akaretsang palo 1 go fitlha ka 6 mo tatelanong . Morutabana o neela bana taelo e e tshwanang le: - Dula mo godimo ga palo 6. - Baya monwana wa leoto mo godimo ga palo 3. - Taboga o potologe palo ya 2 gararo. - Tlola kwa godimo ga 1. - Morutabana a ka phatlhalatsa matshwaopalo a bo a neela ka ka ditaelo tse di tshwanang le tse di fa godimo.	Sete ya dikhateboto tse di tonna tsa matshwaopalo O ka nna wa di penta mo dikarolwaneng tsa dikhateboto kgotsa tsa polasitiki 	
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekatekanotlhakoretharo (3-D) Letlelela barutwana: - Bala didiriswa mo phaposing tse di akakretsang 1 go fitlha ka 6. - Morutabana o baya thotho ya didiriswa mo tafoleng. Letlelela barutwana go fopholetsa gore thoto ya didiriswa di kae.Morago o di bale.		

Beke 25 **Kitsiso**	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.3 **Matshwaopalo le go lemoga Dipaloina**	• **Lemoga le go supa letshwaopalo le leinapalo le le akaretsang palo ya 6** **Motlotlo:** Bala didiriswa go fitlha ka 6 letsatsi le letsatsi. Baela ka pele le kwa morago go fitlha ka 6. **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 6 Botsa gore o opile diatla gantsi/gannye	Dipina tsa dipalo le diraeme	Letsatsi 1
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) - Bontshasa barutwana karata tsekedimo ya marontho a marataro le go e golaganya go dipalo ya dibadisi. - Tshameka metshameko o supa letshwaopalo le le totobetseng magareng ga dilo tse dingwe le go e golaganya le dipalo e e tshwanang ya dibadisi. - Tshameka metshameko o supa letshwaopalo le le totobetseng magareng ga dilo tse dingwe le go e golaganya le dipalo e e tshwanang ya dibadisi. - Tshameka motshameko ka go golaganya dipalo ya Dibadisi le leinapalo,letshwaopalo le dikarata tsekedimo tsa ditshwantsho. - Gatisa palo 6 ka kerayone.	Didirswa le Dibadisi Karata tsekedimo ya letshwaopalo le leinapalo sekao 	

Beke 25 **Kitsiso**	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhaloso le go bapisa le thulaganyo ya dipalo**	• **Rulaganya le Bapisa didiriswa tse di kgobokantsweng o dirisa "ntsi go" le nnye go"le lekana le" go fitlha ka palo ya 6** **Motlotlo:** Bala didiriswa go fitlha ka 6 letsatsi le letsatsi. Balela ka pele le kwa morago go fitlha ka 6. **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 6 Botsa gore o opile diatla gantsi/gannye	Dipina tsa dipalo le diraeme	Letsatsi 1 Tlhopa ditirwana tse di mmalwa
	Metshameko ya go dirisa mmele - Morutabana o baya dihupu tse pedi mo fatshe. - O bitsLetlelela barutwana go : babedi go ema mo sentlhageng se le sengwe le barutwana ba le babedi go ema mo sentlhageng se sengwe. - Ke sentlhaga sefe se se nang le barutwana ba bantsi?	Dihula hupu tse 2 	
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) - Barutwana ba dula mo mmetsheng ba dire dintlhaga tse pedi ka ulu. - Morutabana o neela ka taelo sekao barutwana ba baya Dibadisi tse pedi mo sentlhageng le tse nne mo sntlhageng se sengwe. Ke sentlhaga sefe se se nang le dibadisi tse dints"i/tse "dinnye" - Boeleltsa o dirisa palo ya 6. - Morutabana o dirisa sekhurumelo sa setshelo sa bebetsididi. O dirisa pekese tse 3 go pekesa mo latlhakore le le fa godimo ga sekhurumelo le dipekese tse 3 tsa diaparo go pekesa mo letlhakoreng la moja la sekhurumelo. Ke dipalo efe ya dipekese e e leng ntsi go feta tse dingwe kgotsa a di a lekana? Barutwana ba ka dira ditirwana tsa mo ditlhopheng, ka go dirisa dikhurumelo tsa bona le dipekese tsa diaparo	Morutwana mongwe le mongwe o newa dikarolo tse 2 tsa wulu Dibadisi  	

Beke 25 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhaloso le go bapisa le thulaganyo ya dipalo**	**Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o supetsa dikarata tsekedimo tsa marontho a dipalo tse di farologaneng le ditshwantsho mo go tsone.  - Letlelela barutwana go bapisa dikarata tsekedimo tsa ditshwantsho le marontho mo go tsona le go supa dikgopolo ka ga “go gontsi go””go gonnye go” go lekana le” Barutwana ba thala dintlhaga tse pedi mo bonthangweng jwa pampiri. Morutabana o ba laela go paka dibadisi le go gokaganya dibadisi mo sentlhageng se sengwe le se sengwe ka kerayone.Godisa kgopolo e tshwanang le go kgaoganyo tekanao sekao :  Ka dikarabo tse di akaretsang sesala dira ditlhopha tsa dipalomaleka sekao. 	Setshwantsho le karata tsekedimo ka marontho Pampiri ya A4 le kerayone ya mafura Dibadisi	
3.3 **Maina a dipopego tsa tekatekany-etsotlhakorepedi (2-D)**	• **Dira le go feleletsa phasele ya gagwe ya 5** Letlelela barutwana go: - Thala setshwantsho mo pampirng ya A4 . - Morutabana o thala mola mo morago ga pampiri e morutwana a thadileng setshwantsho mo go yona. - Morutwana o segolola setshwantsho sa gagwe mo methalong e e neetsweng. - Morutwana o feleletsa phasele ya gagwe.	Kerayone Pampiri ya A4 Dikerayone Dikere Enfelopo kgotsa e e itiretsweng go baya phasele mo teng(mena pampiri ya A4 le sekgomaretsi) 	Letsatsi 1

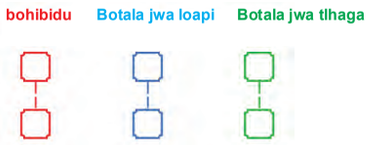
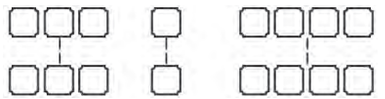
Beke 25 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
5.1 **Kgobokanya, le go tlhaola didiriswa.** **5.2** **Thala kerafo go bontsha tshedimosetso** **5.3.** **Puiso le pegelo, kgobokanyo ka didiriswa**	• **Dipalo ya ditlhaka mo maineng a barutwana** **Tharabololo ya dipalo:Bolelela barutwana palo:** "A maina a a nang le ditlhaka tse thataro a itsege thata"? Re kgona go batlisisa jang? Re tshwanetse re kgobokanye tshedimosetso efe?" **Kgobokanya tshedimosetso** - Barutwana ba bala dipalo ya ditlhaka mo maineng a bone go tswa mo karateng ya leina le morutabana a mo diretseng yona. - Morutabana o tsholetsa karata tsekedimo ka dipalo e e tsamaisanang le dipalo ya ditlhaka tsa maina a bone, o botse:ke mang yo o nang ditlhaka di le 4 mo leineng la gagwe? o ntse o tsholeditse letshwaopalo. Boeletsa ka dipalo tsotlhe **Thala kerafo** - Morutabana o thala lenane le le latelang fa a ntse a tshwere dipalo:		

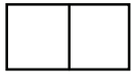
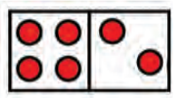
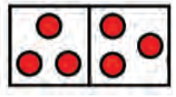
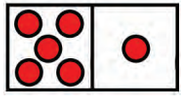
Ditlhaka tse 3	Ditlhaka tse 4	Ditlhaka tse 5	Ditlhaka tse 6
Ann Sam	Kady Mark Maja	David Aidon Sarah Caleb Naila	Sophie Jessie
2	3	5	2

Buisa le go ranola lenane:

- Ke dipalo efe e e tshwanang mo ditlhakeng tsa maina a lona?
- Ke maina a lekae a a nang le ditlhaka tse di fetang 5 kgotsa 6.
- Ke maina afe a a nang le ditlhaka tse dinnye go 5? Maina a mararo.

Beke 26	Nako e e tshitshintsweng ya go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana)(mosako)± metsotso e le 30 ± 5 ditirwana tsa dipalo mo bekeng		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Gatelela kitso e ba e boning o tsenyeletsa dipalo 1 go fitlha 6** **Motlotlo:** Bala dilo ka letsatsi go fitlha go 6. Balela kwa pele le kwa morago go fitlha go 6. **Gatelela dikakanyo tsa bontsi le bonnye".** Opa diatla gantsi …EMA Opa diatla ga nnye .Morutabana o opa diatla go fitlhela go 6 Botsa potso gore ke diatla dife a a opilweng gantsi \ go le gonnye **Metshameko ya go dirisa mmele** Letlelela barutwana go : : - Ba age matshwao a palo ka mebele ya bona. - Tshwarelela dipalo tsa menwana ka ditaelo tsa morutabana. - Bopa matshwao a palo ka dikarolwana tsa mogala kgotsa seloko\mmopa - Tshwara dipalo popego tsa khaboto ka mo kgetseng le go tlhaola palo e nngwe le e nngwe. - Kwala matshwao a palo 1 go fitlha 6 fa fatshe kgotsa mo moweng.	Dipalo moribo le dipina Disete tse pedi tsa khaboto Dipalo tsa dipalo mo kgetseng ya go tshwarega.	Letsatsi

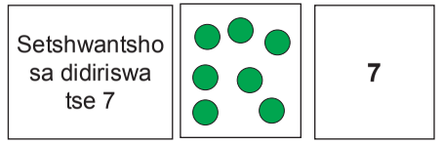
Beke 26	Nako e e tshitshintsweng ya go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana)(mosako)± metsotso e le 30 ± 5 ditirwana tsa dipalo mo bekeng		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	**Dirisa dilo tsa ditekanyetso tsa dipopego tse pedi tse di kgonngwang** : Balele dilwana mo phaposing o tsenyeletsa go fitlha go 6 - Bala dibadisi go fitlha go 6. - Baa dibadisi tsa khubiki kgotsa dibadisi tsa mebala mo moleng mo tafoleng - Barutwana ba nyalanya dikhubiki ka didirswa tsa mebala le dikhubiki tse dingwe tsa dibadisi. Sekao:  - Dira ditlhopha tsa boleele jo bo farologaneng. Barutwana ba nyalanya dikhubiki go ya ka boleng 	Dilwana mo phaposing Dibadisi tse di nang le mebala dikhubiki (khubiki e le nngwe)	
1.3 **Matshwaopalo le dipaloina**	• **Itse matshwapalo le go lemoga dipalofoko o tsenyeletsa dipalo go fitlha 6** **Go Motlotlo:** Bala letsatsi le letsatsi dilwana go fitlha go 6. Balela kwa pele le kwa morago go fitlha ka 6. **Gatelela dikakanyo tsa bontsi le bonnye".** Opa diatla gantsi …EMA Opa diatla ga nnye .Morutabana o opa diatla ga (6) ga rataro. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** Tlaa re tshameke motshameko: - Morutabana o kwala dipalofoko mo karateng le matshwao mo letljakoreng le lengwe ka yona karata tsekedimo go tsenyeleltsa dipalo go simolola ka 1 go fitlha go 6 (Dira sete e nngwe)). - Barutwana ba bala dipalofokole go phopholetsa matshwaopalo - Ba fetolela karata tsekedimo le go siamisa (go itshiamisa).	Bopele jwa karata tsekedimo Bomorago jwa karata tsekedimo Thataro 6 Dikarata tsekedimo tse di akaretsang dipalo 1-6 le dipalofoko mo letlhakoreng le lengwe le letshwao la dipalo mo letlhakoreng le lenwe . (Dira disete tse di mmalwa gore ngwana mongwe le mongwe a nne le karata tsekedimo ya gagwe.)	Letsatsi 1

Beke 26	Nako e e tshitshintsweng ya go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana)(mosako)± metsotso e le 30 ± 5 ditirwana tsa dipalo mo bekeng		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.7 **Tlhakanyo le Tloso**	• **Ka molomo rarabolola dipalofoko mo tirisong le go tlhalosa ditharabololo tsa bona mo dipalong tse di tsenyeletsang palo ya thataro (6).** **Go Motlotlo:** Bala letsatsi le letsatsi dilwana go fitlha go 6. Balela kwa pele le kwa morago go fitlha ka 6. **Gatelela dikakanyo tsa bontsi le bonnye".** Opa diatla gantsi …EMA Opa diatla ga nnye. Morutabana o opa diatla ga (6) ga thataro. **Dirisa dilo kgotsa ditshwantsho tsa ditekatekanyetso tsa dipopego tse tharo tse dikgonngwang** 1. Neela morutwana yo mongwe le yo mongwe pampiri ya A4 e thadilwe mola o o tsepameng le go balela dibadisi di le 6 sekao.  2. Letlelela barutwana gore ba latlhele dibadisi ka tlhokomelo mo letlhare la pampiri le go tlhalosa gore di wele jang..  4 le 2 →6 (4 le 2 e go fa 6)  3 le 3→6 3. Boeletsa ka dipalo 1 go fitlha go 5 gape le.  5 le1→6 4. **Go rarabolola dipalo: Tlhalosa tharabololo ya gago ya dipalo**. 5. Dira se gape ka dipalo tsa go tlosa	Dipalopina le moribo Balela dibadisi tse 6 go morutwana mongwe le mongwe Pampiri ya selekanyo sa A4 ka mola mo gare	Letsatsi

Beke 26	Nako e e tshitshintsweng ya go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana)(mosako)± metsotso e le 30 ± 5 ditirwana tsa dipalo mo bekeng		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.4 **Mothamo/bolumu**	• **Simolola dikakanyo tsa go lekanyetsa boleng ka go bapisa gore ke ditsela tse kae tse di tlhokegang. sekao** - **"gagosepe\lolea\tletse"** - **"bontsi go\bonnye go"** - **Bontsi\bonnye** Simolola mothamo go barutwana ka go botsa gore ke setshelo sefe se se tshotseng bontsi go feta. Barutwana ba dira dipapiso ka boleele le go na le mothamo . Sekao,Ke efe e e tshotseng go feta, setshelo sefe se se tshotseng bontsi go feta,a ke setshelo se se khutshawane kgotsa se se leele?. Bontsi jwa barutwana ba tla tlhopha setshelo se se telele le fa se se khutshwane tota se tshotse seedi se se ntsi. **Motshameko wa go dirisa mmele** "Bontsi\ bonnye" - Dirisa setshelo se le sengwe jaaka, selekanyetso sa go lekanyetsa. Sekao. Kopi ya yokate. Neela barutwana ditshelo tsa di farologaneng. - Barutwana: - Ba batle gore ke setshelo se fe se se tshotseng bontsi kgotsa bonnye jaaka go kopi ya yokate, Ke setshelo sefe se see rweleng thata? Ke setshelo sefe se se tshotseng go le go nnye?" Neela barutwana letshwao la go ja le kgamelo ya botlhaba go tshela mmu ka mo koping. Letlelela barutwana go : : - Balele gore ke maswana a makae a mmu a a tladitseng kopi kelelo a aka dirwang go nna thata ka go neela ditshelo tse di fetang sekao. Kopi, galase ya polasitiki, jeke e nnye - Boeletsa tirwana o dirisa dikopi.	Metsi (Ka nako ya motshameko wa metsi) le motlhaba (Kwa kgaolong ya motlhaba ke mafoko a a siameng go aga boleng Ditshelo tsa mefuta ka dipopego tse di farologaneng le bogolo Kopi ya yokate Kgamelo e na le motlhaba Kopi Leswana la go ja	Letsatsi 1 Tlhopha tiro e le nngwe kgotsa tse pedi.

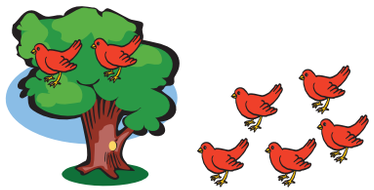
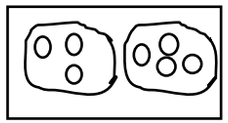
Beke 26	Nako e e tshitshintsweng ya go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana)(mosako)± metsotso e le 30 ± 5 ditirwana tsa dipalo mo bekeng		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	**Lefelo la dilwana tse pedi kgotsa go feta mo kamanong le tse dingwe.** • **Didiriswa tse di kgonngwang tse di nang le dilo tsa ditekanyetso tsea dipopego tse tharo.** **Papetla ya go dira:** A morutwana pele ba dirisa letsogo la moja morago letsogo la mollema, le le diatla otlhe baya dipekere mo papetlaneng . - Morutabana o bolelela barutwana gore ba beye dipekere fa kae? Sekao: Mo moleng o o kwa godimo Mo moleng o o kwa tlase Mo letsogong la molema Mo letsogong la moja Mo magareng Letlelela barutwana : - Ba dire dibopego mo papetleng ya dipekere ka dipekere tse di nang le mebala - Morutabana o bopa paterone e e bonolo ka go dirisa dipekere, mo papetleng ya dipekere. Barutwana ba kopolola paterone ya gagwe. - Barutwana ba kopolola paterone go tswa mo karateng e e nang le paterone e e thadilweng mo go yona..	Papetlana ya dipekere ya morutwana yo mongwe le yo mongwe kgotsa ka ditlhopha. Dikarata tsekedimo tsa di nang le dipatorone tse di tlhagisitsweng mo go tsona..  Boroto ya dipekere ya morutwana mongwe le mongwe kgotsa ka ditlhopha Karata e go thadilweng dipaterone mo go tsona.	Letsatsi 1

Beke 27 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Itsise bokao jwa palo 7** **Motlotlo:** Bala didiriswa go fitlha ka 6 letsatsi le letsatsi. Baela ka pele le kwa morago go fitlha ka 6. Balela kwa godimo o ipoeletsa **Gatelela go bala palokemotatelano:** Morutabana o paka didiriswa tse 3 mo moleng.Supa sidiriswa se sengwe le se sengwe o ntse o bala gantlha,gabobedi,gaboraro,gane. **Gatelela dikgopolo "bontsi" le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 7 Botsa gore o opile diatla gantsi/gannye **Metshameko ya go dirisa mmele** - Morutabana o kgaoganya barutwana ka ditlhopha. Naya setlhopha se le sengwe dibolo rse 7 tse di dirilweng ka kuranta. - Letlelela barutwana go latlhela dibolo mo teng ga seroto . Barutwana ba tshwanetse go balela kwa godimo ba ntse ba latlhela dibolo mo seroto . - Bala gore morutabana o itaya tafole ga kae mme barutwana ba mo etsisa. - Bala go ya ka moretheto o barutwana ba tlolang ka one mo teng le kwa ntle ga hupu. - Itanya maoto mo fatshe go ya ka moretheto o o tlwaelegileng.	Diraeme tsa dipalo le dipalo Dibolo tsa kuranta Seroto	Letsatsi 1

Beke 27 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	**Dirisa dikgonngwa ka go ruta ka ga didiriswa tsa tekanyotlhakoretharo (3-D)** Morutabana o baya thoto ya diboloko tsa go aga mo fatshe. O naya barutwana taelo e e tshwanang le: - Tsaya diboloko tse 3 go tswa mo thotong. - Tsaya diboloko tse 4 go tswa mo thotong, o busetse tse pedi jalo jalo. - Morutabana o baya thoto ya didiriswa mo tafoleng. Letlelela barutwana go fopholetsa gore didiriswa di kae mo thotong. Morago di bale.. - Godisa temogo ka ga tshomarelo ya dipalo ka go ba letlelela go paka Dibadisi tse supa kgotsa didirswa ka ditisela tse di farologaneng.sekao  Fa o bala, palo ya didiriswa ga e amiwe ke bogolo kgotsa maemo kgotsa ke tsa mofuta o le mongwe. Sekao: - Rulaganya ditalama tse 7, diphensele tse 7.dihulahupu tse 7, barutwana ba 7 jalo jalo. - Ba bale ka tsela e e farologaneng sekao ba bale di adilwe, di bapile,mo moleng, di pakilwe	Diboloko tsa go aga le tsa lego	
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) A re tshameke motshameko: - Morutabana o thala le go kgomaretsa setshwantsho mo letlhakoreng le le lengwe la karata tsekedimo, a bo a thala dipalo e e tshwanang ya marontho mo letlhakoreng le lengwe la karata tsekedimo a akaretsang dipalo 1 go fitlha ka 7(dira disete tse di mmalwa). - O naya morutwana mongwe le mongwe karata tsekedimo e le nngwe ya sete. - Barutwana ba bala dipalo ya ditshwantsho mo karateng. - Pitokolola karata tsekedimo le go bala dipalo ya marontho. - Morutabana o tsholetsa nngwe ya dikarata tsekedimo tsa gagwe tsa marontho mo go tsona. - Morutwana o bapisa karata tsekedimo ya gawe le ya morutabana ya marontho.. - Morutabana o tsholetsa sete ya dikarata tsekedimo tsa matshwaopalo mo go tsone. - Barutwana ba bapisa dikarata tsekedimo tsa bone le letshwaopalo la morutabana. - Morutwana wa karata tsekedimo e e siameng, o ema a bala dipalo ya ditshwantsho kwa godimo.	Sete tse di mmalwa tsa ditshwantsho, marontho le dikarata tsekedimo tsa letshwaopalo le le akaretsang 1-  	

Beke 27 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.13 **Tlhakanya le Tloso** **1.6** **Botegeniki jwa go rarabolola mathata a dipalo**	• **Rarabolola ka go Motlotlo dipalo tsa go tlhakanya le go tlosa tse di neetsweng di akaretsa palo 7** **Motlotlo:** Bala didiriswa go fitlha ka 7 letsatsi le letsatsi. Baela ka pele le kwa morago go fitlha ka 7. **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go le gonnye. Morutabana o opa diatla go fitlha ka 7 Botsa gore o opile diatla gantsi / gannye	Dipina tsa dipalo le diraeme	Letsatsi 1
	Metshameko ya go dirisa mmele - Dirisa dipalo ya llere e rapaletse - Simolola ka 0.Bala o ntse o tsamaya. Morutabana o botsa: - Ke dipalo efe e fa gare ga 4 le 6? - Barutwana ba itemogela ka go dirisa llere ya dipalo. - Ke dipalo dife tse fa gare ga 2 le 5? - Dirisa dikakanyo tsa gago go Letlelela barutwana go itemogela bokao jwa palo 7,ka moretheto wa dirisa mebele ya bone. **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Naya morutwana mongwe le mongwe dibaga di le 7 kgotsa dibadisi. Botsa barutwana dipotso di tshwana le: - Tsamaisa padisi e le nngwe go ya kwa letlhakoreng le lengwe(la molema Fa re tlhakanya padisi e nngwe gape mo dibadising tse di mo molemeng, go na le dibadisi di le kae jaanong? - 1 le 1→2 (Morutabana a re: 1 le 1 ke 2) - Tsamaisa dibadisi tse 4 go ya kwa molemeng. Fa re tlhakanya tse 2 gape mo dibadising tse di mo letlhakoreng la molema, go na le tse kae jaanong? - 4 le 2→6 - O na le tse 5, o tlosa tse 2, o setse ka tse kae?	0 1 2 3 4 5 6 7 Dibaga kgotsa Dibadisi Dibadisi	

Beke 27 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.11 **Tšhelete**	**Lemoga le go tlhaola Tšhelete ya dipampiri a Aforika Borwa** - Dirisa tšhelete dipampiri sekao R10, R20, R50, R100, R200 - Lemosa barutwana ka diphologolo tse di mo tšheleteng a dipampiri. - Dira tiragatso ka tšhelete mo sekhutlwaneng sa ntlo.	Dikai tsa nnete tsa tšhelete a dipampiri R10, R20 le R50 (kgotsa dirisa tšhelete a go o tshameka)	Letsatsi 1
1.9 **Mo karolong dirisa ditlhopha le go kgaoganya boeteledi pele**	• **Rarabolola ka go motlotlo le go tlhalosa ditharabololo tsa dipalo tsa mafoko mo tirisong (dipalo tsa kgang-khutswe) tse di akaretsang:** - **Go kgaoganya ka go lekana,** - **Go kokoanya ka ditlhophatsa palotlalo le** - **Ditharabololo tsa disala go fitlha ka 7** **Motlotlo:** Bala didiriswa go fitlha ka 6 letsatsi le letsatsi. Baela ka pele le kwa morago go fitlha ka 7. **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 7 Botsa gore o opile diatla gantsi/gannye	Dipina tsa dipalo le raeme	Letsatsi 1 Tlhopha e le nngwe kgotsa di le pedi Metshameko ya go dirisa mmele.

Beke 27 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.9 **Mo karolong dirisa ditlhopha le go kgaoganya boeteledi pele**	**Metshameko ya go dirisa mmele** Bopa disete o dirisa barutwana: **Dikao:** 1. Letlelela barutwana go:bopa ditlhopha tsa 2, 3, 4, 5 le 6.Bala gore ba bakae mo setlhopheng. 2. Thala dipopego tse di tonna mo samenteng kgotsa mo motlhabeng . Barutwana ba dira setlhopha sa sekao barutwana ba ba 4 mo gare ga popego. 3. Ka nako ya tlwaelo ya dilapodisi morutabana a re:"Lo ka tsamaya ka ditlhopha tsa 4 go ya go tlhapa diatla go na le gore a re : "Barutwana ba le ba 4 ba tsamaye ba ye go tlhapa diatla" 4. Tlhopha barutwana ba le 7 go dirisa raeme ya go bala. 5. Letla barutwana ba le 7 go itira e kare ke dinonyane le go dira o kare ke setlhare, ba dirise didiriswa tsa go palame kwa ntle kgotsa ditulo le ditafole mo phaposing. 6. Morutabana o romela dinonyane tsa 2 kwa go ba ba itirileng o kare ditlhare (barutwana ba le 2 ba palama didiriswa) Nonyane e nngwe e ya kwa setlhareng nako e nngwe le e nngwe."Go na le dinonyane di le kae mo setlhareng" le gore go na le dinonyane di le kae mo aftshe? 7. Boeletsa ka go kokoanya barutwana ka ditlhopha tsa palo 1-7 **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** **Dikao:** 1. Morutabana o naya barutwana dibadisi.Letlelela barutwana go dira sete tse 4 tse dibadisi. Dira sete e nngwe ya ga 3."Go na le Dibadisi di le kae mo seteng e e ntshwa. 2. Letlelela barutwana go thala didiko tse pedi mo letlhare la pampiri. Ka ditaelo tsa morutabana, barutwana ba aka dibadisi mo diseteng tse pedi gore go nne le dibadisi tse dintsi mo seteng e nngwe go feta sete e nngwe. Botsa dipotso di tshwana le "ke sete efe e e nang le dibadisi tse dintsi/dinnye?	Dirisa dithusa-thuto tse di farologaneng go go naya kakanyo gore o tla dirisa ditogamaano tse di farologaneng jang. Didiriswa tsa go palama kgotsa ditafole le ditilo.  Dibadisi Lenathwana la pampiri le kerayone la morutwana mongwe le mongwe Dibadisi 	

Beke 27 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.4 **Mothamo /bolumu**	**Bapisa dikgonngwa le go rulanya didiriswa o dirisa tlotlofoko e maleba go tlhaolsa:** a) Mothamo b) Lolea, tlatse , gonnye thata , gontsi thata, go le gonnye. **Gatelela kitso e o boneng mo bekeng o tsenyeletsa mothamo.** **Motlotlo:** Bala didiriswa go fitlha ka 6 letsatsi le letsatsi. Balela ka pele le kwa morago go fitlha ka 7. **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 7 Botsa gore o opile diatla go le gontsi/gonnye **Metshameko ya go dirisa mmele** Letlelela barutwana: - Rulaganya ditshelo tse pedi kgotsa tse tharo tse di lolea ka tatelano ya mothamo. Ka mantswe a mangwe ke setshelo sefe se se kgonang go tshela seedi se se ntsi kgotsa se se nnye? Barutwana ba ka itemogela ka go tshela dikopi tsa metsi mo teng ga ditshelo tse di lolea le go bala gor e ke setshelo sefe se se tshelwang dikopi tse dintsi thata. Oketsa dipalo ya ditshelo tse di lolea go dira tirwana e boketenyana. - Barutwana ba ka nna ba dirisa yone kopi e, go lekanya le go tlhomamisa gore ke dikopi tse kae tsa reisi kgotsa dinawa kgotsa mmu di tla tshelwang go tlatsa ditshelo tse di dirisitsweng fa godimo. - Rulaganya mofuta o o tshwanang wa ditshelo (sekao dikgamelo mo lefelong la mmu) go tswa go tse dinnye go ya go tse ditonna. - Naya barutwana ditshelo tse di farologaneng (bogolo jo bo farologaneng le dipopego) le go botsa dipotso di tshwana le: o "Ke setshelo sefe se se o naganang gore se ka tshela metsi a,mantsi / mmu o montsi? o Fa o tshela metsi go tswa mo setshelong se sengwe go ya go se sengwe, fopholetsa gore a se tla se tlatsa?" - Letlelela barutwana go itemogela gore go diragala eng, mo setshelong se se sa tlalang ka metsi fa dilwana tse dinnye di tlhakanngwa sekao tshela maje a mannye, diboloko tsa lego,diboloko tsa polasitiki sekao barutwana ba itumelela motshameko wa go fopholetsa, mo ba fopholetsang gore ke setshelo sefe se se tsholang go le gontsi le go lekola dipholo gore ke mangy o o falolang (Morutabana o supa gore ke dilwana tse di phaphalalang ga di kitla tshwaetsa bogodimo jwa metsi)	Metsi (ka nako ya go tshameka ka mesti) le mmu (ka nako ya go tshameka ka mmu mo lefelong la mmu) ke mafelo a a siametseng go godisa kgoplo ka ga motheo. Dipina tsa dipalo le diraeme Ditshelo tse di farologaneng ka dipopego le bogolo jo bo farologaneng Kopi Kopi Reisi Dinawa Dikgamelo tse di farologaneng go tswa mo lifelong la mmu. Ditshelo tse di farologaneng ka popego le bogolo Metsi Mmu Dilwana di tshwana le maje a mannye,diboloko tsa Lego,diboloko tsa polasitiki	Malatsi 2 Tlhopha ditirwana tse pedi kgotsa tse tharo.

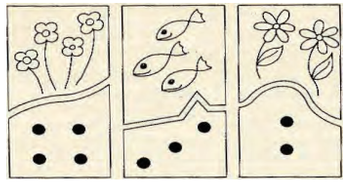
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Gatelela kitso e e amogetsweng e akaretsa palo 7** **Motlotlo:** Bala didiriswa go fitlha ka 7 letsatsi le letsatsi. Baela ka pele le kwa morago go fitlha ka 7. **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 7 Botsa gore o opile diatla gantsi/gannye	Diraeme tsa dipalo le dipina	Letsatsi 1
	Metshameko ya go dirisa mmele - Barutwana ba le babedi ba bilediwa kwa pele.Barutwana ba bangwe ba a ba bala. Barutwana ba babedi fa pele ba tshwara dipalo e e nyalanang le letshwaopalo. - Biletsa morutwana a le mongwe gape kwa pele.Barutwana ba bangwe ba a ba bala. Morutwana yo mongwe kwa pele o tshwara letshwaopalo la 3 - Tswelela go fitlhela go nna le barutwana ba le 7 kwa pele.	Karata tsekedimo ya letshwaopalo tse di akaretsang 1 go fitlha ka 7	
	• **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** - Baya Meteme/dithini tse 7 mo moleng sekao  - Letlelela barutwana go tsenya peo/leje mo teng ga tnini ya ntlha, dipeo tse pedi mo teng ga thini ya bobedi, dipeo tse tharo mo teng ga thini ya boraro, tswelela jalo go fitlhela dithini tsotlhe tse 7 di tshetswe palo ya dipalo tsa dipeo tse kwadilweng kwa ntle ga thini. - Tsaya dikerayone tse di mmalwa (magareng ga 10 le 15) o di tsenye mo teng ga bekere. Botsa barutwana go fopholetsa gore di kae mo teng ga bekere. Buisana le barutwana ka karabo. - Supetsa gore o di bala jang, ka go tlosa e le nngwe ka nako o di baya ka tatelano mo moleng.	Dithini tse 7 ka dipalo ya letshwaopalo e kgomareswe ka fa ntle ga tsone. Dipeo kgotsa maje Dikerayone le bekere	

Beke 28 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.3 **O itse letshwaopalo le go lemoga paloina**	• **Lemoga letshwaopalo le Paloina le le akaretsang palo 7** **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Barutwana ba dula mo sedikong. Pitokolola dipalo ya karata tsekedimo mo pele ga morutwana yo mongwe le yo mongwe.(e ka nna letshwaopalo, leinapalo, karata tsekedimo ka lerontho kgotsa karata tsekedimo ka setshwantsho e e akaretsang 1 go fitlha ka 7) - Ruta barutwana go fetisetsa karata tsekedimo kwa morutwaneng yo mongwe o e pitokolotse mo mmetsheng. - Barutwana ba opela: “Secret number” dipalo ya sephiri, e ka nna efe ? A ke okomele” - Barutwana ba okomela dikarata tsekedimo tsa bone. - Morutabana o tsholetsa karata tsekedimo ya palo ya gagwe.. - Morutwana yo nang le dipalo e e tshwanang le ya morutabana, o a e tsholetsa a bo a re: ke tla tsholetsa karata tsekedimo ya me kwa godimo gore yo mongwe le yo mongwe a e bone.”.		Letsatsi 1
3.2 **Dipopego tsa tekanotlhakoretharo 3-D**	**Aga didiriswa tsa dikgonngwa tsa materiale.** • **Kopolola kago go tswa mo moakanyetsong kgotsa karata tsekedimo ya setshwantsho** **Dirisa dikgonngwa go ruta ka ga tekanotlhakoretharo (3-D)** - Morutwana o aga kago e e tshwanang le moakanyetso kgotsa setshwantsho. - Kopolola moakanyetso o o tshwanang le wa setshwantsho o dirisa boroto ya diphekese. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** Atolosa tirwana e, go botsweretshi jwa pono. - Naya morutwana mongwe le mongwe letlhare le le nang le didiko tse di farologaneng,le dikhutlonne le dikhutlotharo. Letlelela barutwana go: - Segolola dipopego le go aga dikago tsa dipopego tsa tekanotlhakorepedi (2-D) mo letlhare la pampiri le go e kgomaretsa. - Kgabisa setshwantsho ka methalo..	“Dipopego tsa Logi ” diboloko tsa bokgoni “diboloko tsa tlhaloganyo” Sediriswa sengwe le sengwe sa go aga. boroto ya dipekese Didiko, dikhutotharo le dikhutlonne tse di tonna le tse dinnye tse di farologaneng mo letlhareng la pampiri. Dikere,sekgomaretsi	Letsatsi 1 Ka tsweletso

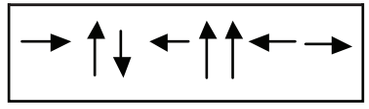
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.4 **Tekano**	• **Lemoga bokgoni jwa go kgabaganya molagare** Godisa bokgoni jwa go kgabaganya mola-gare **Metshameko ya go dirisa mmele** Letlelela barutwana: - Lebelela gape kitso e e amogetsweng: ama dikarolo tse di farologaneng tsa mmele go ya ditaelo. Tshameka “simple Simon says” - Tswelela go neela ka ditaelo, mo barutwana ba tshwanetseng go kgabaganya molagare jaak go :“ama lengwele la gago ka nko.ama legetla la gago ka tsebe.ama lengole la gago la molema ka leoto la moja, ama sekgono sa gago ka ka letsogo le lengwe. Jalo jalo	Motshameko: “Bonolo Simon a re, ama .....”	
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanyotlhakoretharo (3-D) Letlelela barutwana go: - Thala didiko tse di tonna mo patikwalelong. - Thala mela e tlhamaletseng mo patikwalelong.Netefatsa gore morutwana o fapaanya mola wa gare. - Mo patikwalelong o thala mola go tswa mo lerothong le lengwe go ya go le lengwe le le kgakala. - Thala setshwano sa robedi se rapaletseng mo patikwalelong.Dirisa motsamao o motonna go netefatsa gore morutwana o kgabaganya mola gare. (morutwana o dirisa letsogo la molema le letsogo la moja)	Barutwana o thala mo patikwalelong 	
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Tsenyeletso botsweretshi la pono Letlelela barutwana: - Penta mo letlhareng la kuranta go tswa mo molemeng go ya kwa mojeng.	Morutwana mongwe le mongwe o newa letlhare la kuranta gabedi Boratšhe jwa pente	

Beke 28 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
4.3. **Boima /Mmese**	**Bapisa dikgonngwa le thulaganyo ya didiriswa o dirisa tlotltofoko e maleba go tlhalosa:** - **Mmese/boima Sekao: Bofefo , boima , bofefo thata , boima thata.** • **Itsise kgopolo ka ga boima o Bapisa boima jwa didiriswa tse di farologaneng sekao:** Bofefo / boima **Botlhofonyana / boima thata** Go lekanya boima go raya go batlisisa gore selo se boima go le go kae. **Metshameko ya go dirisa mmele** Letlelela barutwana go fopholetsa boima jwa didiriswa: - Tshwara didiriswa tse di latelang, se sengwe le se sengwe mo letsogong le lengwe le lengwe, barutwana ba fopholetse gore ke sefe se se boima kgotsa bofefo sekao . o Lejwe le boloko jwa go aga.. o Koloi ya go tshameka ya polasitiki le ya tshipi. o Thini ya kofi le pampiri ya kwa ntlwaneng. o Bolo e tonna ya rabara le bolo ya kerikete. Ka gale barutwana ba batlisisa gore didiriswa tse di tonna di boima fa ba kopiwa go fopholetsa ka boima jwa didiriswa tse pedi. - Itsise ka sekale sa go lekanya boima sekao lekanyetsa didiriswa go bona gore ke barutwana bafe ba ba neng ba siame. - Botsa dipotso di tshwana leke sediriswa sefe se se boima thata/bofefo thata? Letlelela barutwana gore ba batle sediriswa se ba gopolang gore se boima go feta didiriswa tse o di lekanyeditseng mo sekaleng mo phaposing. - Dira gore sekala sa go lekanyetsa se nne teng ka nako ya motshameko o o lokolosegileng, gore barutwana ba tswelele ka ditirwana tsa go lekanyetsa boima. - Neela ka sekale mo sekhutlwaneng sa ntlo gore barutwana ba kgone go bona gore ke diboloko tsa lego di le kae tse di nang le boima jo bo tshwanang sekao apole 	3-D Didiriswa tse di farolganeng ka boima le bogolo sekao. Lego diboloko, mpompo, kago, (meteme)dithini, ditshelo jj.. **Sekale sa go lekanyetsa** O ka nna wa itirela sekale se se botlhofo: - O tlhoka hangere ya polasitiki, - Didiriswa tsa majerini tsa polasitiki tse di kgolokwe kgotsa dibotlolo tsa senotsididi le thudi e e nnye. - Phunya mahuti a mabedi go lebagana le le lengwe, mo sedirisweng sa majerini/botlolo ya senotsididi. - Golega sediriswa sa majerini/botlolo kwa bofelong jwa hangere o tla bo o na le sekale. - Pega hangere mo sepekereng kgotsa mo hukung, barutwana ba ka simolola go lekanya didiriswa. - Supetsa barutwana gore hangere e tshwanetse go nna mo selekanong nako nngwe le nngwe o lekanyetsa didiriswa.	Letsatsi 1 Tlhophafela ditirwana tse pedi kgotsa tse tharo.

Beke 29	Nako e e tshitshintsweng ya go Ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana±30 metsotso mo bekeng (Mosako) (± 5 metsotsoditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Sebaka se se maleba**
1.1 **Bala didiriswa**	• **Tlaleletsa kitso e ba boneng e akaretsang dipalo tsa 1-7** **Motlotlo:** Bala dilo letsatsi le letsatsi go fitlha 7. Balela kwa pele le kwa morago go fitlha 7. Go balela godimo o boeletsa 1-10 **Tlaleletso ya dikakanyo tsa "bontsi" "le" bonnye".** Opa diatla gantsi …EMA Opa diatla gangwe. Morutabana o opa a gagwe ga 7. Botsa potso gore ke palo efe e e phaphathilweng go le gontsi \nnye.	Dipina tsa dipalo le moribo	Letsatsi 1
	O dirisa dilo tsa ditekanyetso tsa dipopego tse pedi tse di kgonngwang A bautwana ba : - Ba kgobokanye dithupa.Di beye mo phaposing go di dirisa gape. - Dirisa dithupa tsa gago sekao:. Go kwala letshwao la tlhano(5).  	Dithupana	
	Letlelela barutwatwana go : **:** - Dirisa sete ya dikarata tsekedimo tsa folašhe tse di tsenyeletsang 1 go fitlha go 7. - Thala palo tsa dilo ka taelo ya morutabana.SekaoThala didiko tse pedi (2) . - Bala go tloga mo palong e o neilweng:Sekao Morutabana o tla bala tharo. Barutwana ba tla bala nne, tlhano, thataro. - Ka nako ya dijo morutabana o tla botsa: "Ke barutwana ba ba kae ba ba tshotseng sementšhise ya borotho jo borokwa? Ba ba kae ba tshotseng sementšhise ya borotho jo bosweu A bana ba bantsi ba tshotse sementšhese ya borotho jo bosweu? Ke tse dife tse dintsi le dife tse dinnye?" - Morutabana o baya dilwana ka mokoa mo tafoleng.O letlelela barutwana go fopholetsa gore ke dilwana tse kae mo mokoeng? di bale morago.	Ditshwantsho le dikarata tse dikgolwane tse di tsenyeletsang dipalo 1 go fitlha go 7 Letshwaopalo le dipuofoko, dikarata tsekedimo tse di tsenyeletsang dipalo go tloga 1 go fitlha 7 sekao.  Pampiri le diphensele tsa mebala	

Beke 29	Nako e e tshitshintsweng ya go Ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana±30 metsotso mo bekeng (Mosako) (± 5 metsotsoditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Sebaka se se maleba**
1.3 **Lemoga matshwaopalo le dipaloina**	• **Lemoga letshwao la dipalo le leina la dipalo le le akaretsang dipalo 1 go fitlha go 7** **Motlotlo:** Bala dilwana letsatsi le letsatsi go fitlha go 7. Balela kwa pele le kwa morago go fitlha go 7. **Gatelela dikakanyo tsa "bontsi" "le" bonnye".** Opa diatla gantsi …EMA Opa diatla gago go le gonnye . Morutabana o opadiatla tsa gagwe go fitlha go 7. Botsa potso gore ke palo efe ya kopo ya diatla e ntsi /e nnye . **Metshameko e e dirisang mmele** - Baya karata tsekedimo ya letshwaopalo le legolo\tona mo phaposing kgotsa kwa ntle mo go tshamekelwang teng. - Neela kgaolo eo ya lefatshe "palo" mme barutwana e le "Dipalo-tlhaka kgosi \ kgosigadi. " Baya korone e dirilweng ka karata tsekedimo ya lebokoso mo tlhogong ya morutwana yo mongwe le yo mongwe ka dipalo tse di kwadilweng sentle. - Neela barutwana ditaelo jaana: o Bana botlhe ba ba apereng bokhibidu tlolela go 2. o Bana botlhe ka moriri o moleele tlolelang ka menwana go 6.	Dipalo tsa dipuo le moribo 3 5 2 Karata tsekedimo ya letshwao palo e kgolo Dikorone tsa dipalo tse dintsi tsa morutabana yo mongwe le yo mongwe tse di dirileng ka khatebokoso, di na le dipalo mo go tsona  	Letsatsi
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Letlelela barutwana go : : - Thala dipalo tsa marontho ka taelo ya morutabana. Sekao: thala marontho a 2 . Boeletsa ka dipalo go tloga go 1 go fitlha go 7 - Nna le disete tsa letshwaopalo lekarata tsekedimo tsa leinapalo tse di teng. . Neela morutwana yo mongwe le yo mongwe karata tsekedimo e le nngwe. Morutabana o tsholetsa karata tsekedimo kwa godimo. Barutwana b aba nang le dikarata tsekedimo tse di tshwanang ba di emisa. - *Tshitshinyo:* Akaretsa barutwana mo go direng dikarata tsekedimo tsa bona. - Tshameka metshameko ya go nyalana, ka letshwao palo le dipalofoko ya dikarata tsekedimo.  	Pampiri le korone Sete ya dipalo ya karata tsekedimo e e fetang nngwe tse di akaretsang dipalo 1 go fitlha go 7  	

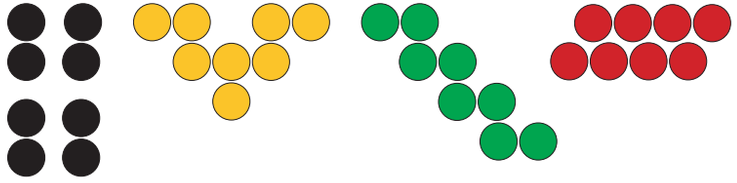
Beke 29	Nako e e tshitshintsweng ya go Ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana±30 metsotso mo bekeng (Mosako) (± 5 metsotsoditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Sebaka se se maleba**
1.7 **Tlhakanyo le Tloso**	• **Rarabolola ka molomo go tlhakanya le go tlosa dipalo tse di neetsweng le dikarabo go fitlha go 7** **Molomo:** Balela dilo letsatsi le letsatsi go fitlha7. Balela kwa pele le kwa morago go fitlha 7. **Tlaleletso ya dikakanyo tsa "bontsi" "le" bonnye".** Opa diatla gantsi …EMA Opa diatla gangwe. Morutabana o opa a gagwe ga 7. Botsa potso gore ke palo efe e e phaphathilweng gantsi \ nnye. **Metshameko e e dirisang mmele** - Lebelela dikakanyo tsa beke 24 le 27 go dikakanyo. - Dirisa dikakanyo tsa gago gore barutwana ba itemogele bokao jwa didiriswa tse dikgonngwang o dirisa tekatekanyo ya dipopego tse tharo.	Dipalo tsa dipuo le moribo Dibadisi	Letsatsi 1

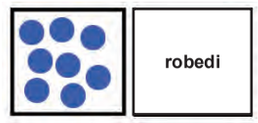
Beke 29	Nako e e tshitshintsweng ya go Ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana±30 metsotso mo bekeng (Mosako) (± 5 metsotsoditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Sebaka se se maleba**
3.1 **Maemo, kitsiso le dipono**	**Latela dintlha go sutela kgotsa go ipaya mo lefelong le le kgethegileng** • **Godisa maikutlo a tenosi ka dintlha tse ka go dirisa karata tsekedimo ya metsu le karata tsekedimo tsa tshekedimo** **Motshameko wa go dirisa mmele** Letlelela barutwana go :tsamaele kwa dintlheng tse di farologaneng : - Kwa lebating, - Kwa letlhabaphefong, - Kwa lefelong la dibuka. **O dirisa didiriswa tsa ditekanyetso tsa dipopego tlhakoretharo (3 D)** A barutwana ba - Ba thale mola setshwantsho sa robedi se se rapaletseng mo lebatikwalelo.Netefatsa gore barutwana ba kgabaganya molagare sekao: 	Patikwalelo	Letsatsi 1
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) A barutwana ka bongwe \ditlhopha tse dinnye: - Tlhoma matlho mo karateng ya tsekedimo le go tsamaisa letsogo la gagwe kwa ntlheng e e supilweng ke motsu le go bua fa a dira jalo. sekao: Fa morutwana a baya letsogo kwa ntle a re" moja". - Mo motsamaong o yang godimo le tlase morutwana a ka dirisa letsogo lengwe le lengwe.. - Supetsa dintlha mo karateng ya metsu. - Kgomaretsa dikgato tsa maoto go ya ntlheng ya lebati. **Tlotlofoko \ mareo:** godimo/tlase ka gare kwa ntle; godimo/tlase/pele/morago mo pel fa pele/kwa morago; mo godimo kgotsa godimo / kwa tlase ; letlhakore le le lengwe/; gaufi le ; molema le moja	Karata tsekedimo ya tsekedimo ka motsu o le mongwe. Dikolosa karata tsekedimo ya tsediimo kwa ntlheng tse farologaneng. **Karata tsekedimo ya metsu** (phousetara ka metsu mo dintlheng tse farologaneng) 	

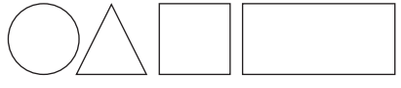
Beke 29	Nako e e tshitshintsweng ya go Ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana±30 metsotso mo bekeng (Mosako) (± 5 metsotsoditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Didiriswa tse di atlenegisitsweng**	**Sebaka se se maleba**
4.3 **Boima/Mmese**	• **Gatelela kitso e o e amogetseng ng mo bekeng ya 28 o akaretsa boima – botlhofo\ bokete** **Botlhofo thatathata/boima thatathata** Metshameko e e dirisang mmele Letlelela barutwana go : : - Bapise boima jwa ditshelo tse tharo go ya go tse tlhano tse ditshwanang (sekao digerama tse 400 tsa meteme/dithini /e/tse e/di senang sepe) di tshetswe selekano se se farologaneng sa mmu wa motlhaba mmu gore boima jwa tsone bo farologane. - Di beye ka thulaganyo go ya botlhofo go ya ka bokete ka go lekanyatsa boima.Morago ga foo sekala sa boima se ka dirisiwa go lekanyetsa go tlhomamisa fa barutwana ba ne ba nepile. - Tshitshinyo: Dira tekelelo go bona gore go ka lekanyetswa diwatšhere kgotsa dipekere tse kae go fitlhelela bokete jo bo tshwanang.Didiriswa tse di farologaneng di ka nna tsa diriswa. Morutabana o baya diathikele tsa boima jo bo farologaneng mo ditshelong tse di tshwanang:Sekao: ditshelo tse pedi tsa tšhesi, e nngwe e tsentse boloko e nngwe thenese bolo. Letlelela barutwana go: - Lemoga pharologanyo ya boima gareng ga boima jwa dilo di le pedi, mme ba fopholetse gore ke efe e e botlhofo ke efe e bokete. - Ba dirise sekale sa go bona karabo ya nnete. - Gwetlha barutwana go tlhaola dilo mo diphaposing tse di nang le boima jo bo lekanang. Kgaolo ya lefelo la khuti ya mmu wa motlhaba le motshameko ka metsi ke mafelo a tlhokafalang a tshwanetseng go dirisetswa go gatelela dikakanyo jaaka botlhofo\bokete\ bokete thata thata o dirisa ditshelo tsa bogolo jo bo tshwanetseng. Sekala sa go lekanya ,motlhaba o bongola le o o omileng. **Ela tlhoko: Nna fa fatshe le barutwana fa o bua o tlotla le go tlhalosa.**	Dithini tse dilolea tse di lekanang ka bogolo Sekala sa go lekalekanya Didiriswa jaaka diboloko tsa Lego Didiriswa tsa bokete jo bo farologaneng jaaka ditlhatswi tsa ditshipi kgotsa manala. Khuti ya motlhaba Sejana sa motshameko wa metsi, segobe sa metsi a diphologolo	Letsatsi 1

Beke ya 30	Dirisa beke ya 30 go tlhokomela makoa a thuto ka ga dikgopolo le /kgotsa dikgoreletsi tse di lemogilweng mo go ithuteng.	
Kgaolo ya diteng	**Setlhogo**	**Mokgwa wa tekanyetso ya tlhatlhobo**
Dipalo, diopereishene le kamano	**1.1 Go bala dilwana**	Fopholetsa le go bala o boeletsa go fitlha ka 7 (dipina tsa dipalo le diraeme tse di akaretsang kgodiso yak go[polopalo)
		Balela kwa pele le kwa morago (1-7)
		O itse gore palo ya go opa diatla e bonnye kgotsa bontsi jo bokae
		Lemoga dipalo tse di tlwaelegileng mo tirisong sekao bogolo, rejisitara (tlhatlhoba gape)
		Lemoga dipalo tsa ditshwantsho le dikarata tsekedimo tsa marontho go fitlha ka dipalo tsa 7
		O itse matshwao palo 5, 6, 7
		Lemoga maina palo tlhano,thataro,supa
		Go farologanya magareng ga bontsi,bonnye le maleka go, bontsi le bonnye go fitlha ka 7
		Lemoga mebala ga mmogo le mefuta ya diphologolo tse di farologaneng mo Tšheleteng ya Aferika Borwa
	1.6 Ditomagano tsa go tharabololo ya dipalo	Dirisa didirisiswa tsed di kgonngwang Tlhalosa kakanyo ya gagwe ka go dirisa mafoko le ditshwantsho kgotsa didiriswa tse di kgonngwang
	1.7 Tlhakanyo le tloso	O rarabolola dipalo tse di fitlhang ka 7 tsa go tlhakanya le go tlosa ka go Motlotlo
Dipaterone, Tiriso le Alejebera	**2.1 Dipaterone tsa Jeometeri/tekano**	Kopolola,atolosa le go bopa dipaterone tsa bone a dirisa ditshwantsho
Boalo le popego (Jeometeri)	**3.1 Maemo, kitsiso le dipono**	Itse maemo a dilwana tse pedi kgotsa tse tharo di goleganya le nngwe le nngwe ya tse:kwa pele ga, kwa morago , godimo , fa , tlase,kwa tlase,tlase go bapa mogare,molema le moja
	3.2 Dilwana tsa tekano tlhakoretharo (3-D)	Lemoga le go neela ka maina a khutlonne
		O tlhaloganya tlhomamo ya dipopego e e ithutilweng (polokego ya dipopego)
	3.3 Dipopego tsa tekanyotlhakoretharo (2-D)	O bopa go tloga mo sekaong se se neetsweng
		Aga sekao sa kago go tswa go setshwano /karata tsekedimo ka setshwantsho
Tekanyo	**4.2 Boleele**	Go aga phasele ya dikarolo di ka nna 18
		Go lemoga, tlhaola le maina a dikwere
	4.3 Boima /Mmese	Tlhaloganya kago ya dipopego tse di tlhomameng tse di ithutilweng
	4.4 Mothamo/bolumu	Fopholetsa le go lekanyetsa boleele jwa didiriswa tse di farologaneng.
		O tlhaloganya kgopolo ka ga “bofefo,boima,bofefonyana,boimanyana,bofefo thata, boima thata.
		O tlhaloganya kgopolo ka ga lolela,tletse, ntsi go, nnye go”
Go dira ka tshedimosetso	**Kgobokanya,tlhaola,tlhagisa dilwana tse di phuthilweng tse tlhaotsweng, puisano le pegelo ka dilwana tse di phuthilweng**	O kgona go kgobokanya, tlhaola,Bapisa,bala le go Bapisa didiriswa go ya ka ponagalo e le nngwe.

KGWEDI-THARO 4 DIPALO MOPHATO WA R			
Beke 31	**Nako e e tshitshintsweng ya go ruta**		
Kitsiso	**Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Itsise bokao jwa palo ya 8** **Motlotlo:** Bala didiriswa le letsatsi le eltsatsi go fitlha ka 8. Balela kwa pele le kwa morago go fitlha ka 8. Balela kwa godimo o ipoeletsa 1-10 Itsise bobadi jwa palo pedi o dirisa go raema **Gatelela palokemotatelano**: Morutabana o paka didiriswa tse 4 mo moleng. Supa sediriswa sengwe le sengwe o ntse o bala ya ntlha,ya bobedi,ya boraro,ya bone **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 8 Botsa gore o opile diatla gantsi/gannye	Dipina tsa dipalo le diraeme. *Pedi,nne,thataro,robedi,* *Monna a le mongwe fa hekeng.* *A re o thari thata;* *Pedi, nne,thtaro,robedi.*	Letstsi le 1
	Metshameko ya go dirisa mmele Letlelela barutwana: - Baya dikgato tse robedi o ntse o tsamaya o potologa mo phaposing - Supetsa menwana e robedi. - Letlelela barutwana: - Dirisa mapalamo a dipalo, e bewe mo fatshe rapalala) - Netefatsa gore barutwana ba simolola ka 0 ka nako tsotlhe. - Supa letshwaopalo fa ba ntse ba tsamaya mo molapalong. - Tsamaya mo karolwaneng fa o ntse o Bala letsatsi morethetho	0 1 2 3 4 5 6 7 8 Sete ya letshwaopalo mo karateng 1 go fitlha ka 8.	

Beke 31 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.3 **Lemoga matshwaopalo le dipaloina.**	• **Lemoga matshwaopalo le mainapalo** **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Letlelela barutwana: - **Motlotlo:** Bala didiriswa mo phaposing tse di akaretsang 1 go fitlha ka 8 - Bala didiriswa go fitlha ka palo 8.	Sete ya didiriswa tse 8 mo phaposing Didiriswa kgotsa Dibadisi.	Letsatsi 1
	- Godisa temoso ka ga tshomarelo ya dipalo ka go letlelela barutwana go paka Dibadisi di le robedi kgotsa go paka didiriswa ka ditsela tse di farologaneng sekao.  Fa o bala, dipalo ya didiriswa ga di amiwe ke bogolo jwa dipalo kgotsa maemo kgotsa ke tsa mofuta o o tshwanang sekao: - Rulaganya ditalama tse 8 ,dipensele tse 8 ,dihulahupu tse 8 ,barutwana ba le 8 jalo jalo. - Di bale ka thulaganyo e e farologaneng sekao di bale di adilwe,di bapile,mo moleng kgotsa di pakilwe. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** Letlelela barutwana: - Tshameka metshameko ka go golaganya dipalo ya Dibadisi ka leinapalo, letshwaopalo,marontho le karata tsekedimo ya setshwantsho e e akaretsang dipalo go fitlha ka 8 - Gatisa palo 8 ka kerayone.	Dibadisi tse 8 kgotsa didiriswa Karata tsekedimo ya letshwaopalo le leinapalo, marontho le ditshwantsho sekao.  Dikerayone Dibadisi	

Beke 31 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa , bapisa le thulaganyo ya dipalo.**	• **.Dirisa palo 8 mo tirisong e e tlwaelegileng** **Motlotlo:** Bala didiriswa go fitlha ka 8 letsatsi le letsatsi. Balela ka pele le kwa morago go fitlha ka 8. **Gatelela go Bala letsatsi bo pedi o dirisa diraeme tsa dipalo** **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go le gonnye. Morutabana o opa diatla go fitlha ka 8 Botsa gore o opile diatla gantsi/gannye	Dipina tsa dipalo le diraeme	Letsatsi 1
	Metshameko ya go dirisa mmele Letlelela barutwana go: - Dira palo 8 ka menwana ya bone. - Bopa dipalo ka dikarolwana tsa thudi kgotsa mmu wa seloko wa go tshameka. - Kwala matshwaopalo mo terei e e nang le mmu. - Baya letshwaopalo le le tonna mo tatelanong fa fatshe go fitlha ka 8.	Thudi/ulu kgotsa seloko ya motshameko. Terei ya mmu Sete ya dikarata tsekedimo tsa letshwaopalo	
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) Morutabana o naya morutwana yo mongwe le yo mongwe dinawa tse 8 le karata tsekedimo ya marontho a 8 Letlelela barutwana go: - Paka nawa mo godimo ga lerontho le lengwe le lengwe mo karata tsekedimo . - Bala dinawa. - Golaganya karata tsekedimo ya lerontho go leinapalo le Dibadisi.	Morutwana mongwe le mongwe o newa dinawa tse 8. Karata tsekedimo ya marontho,karata tsekedimo ya leinapalo le dibadisi 	

Beke 31 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Tekanotlhakore-pedi (2-D)**	**Lemoga le tlhaola le go neela leina la dipopego tsa tekanyotlhakore mo phaposing le ka ditshwantsho** - **Itsise khutlonnetsepa** • **Metshameko ya go dirisa mmele** Letlelela barutwana: - Khutlonne-tsepa e nle matlhakore a le mane. - Bopa dipopego ka mebele ya bone sekao barutwana ba le 3 ba bopa khutlonnetsepa ka mebele ya bone (barutwana ba le 6). - Bopa khutlonnetsepa ka menwana. - Bopa khutlonnetsepa ka dikarolwana tsa wulu kgotsa seloko ya go tshameka. - Tsamaya mo thadisong ya popego ya khutlonnetsepa. Fa o ntse o tsamayLetlelela barutwana go : Motlotlo"ke tsamaya go bapa le khutlonnetsepa,letlhakore le lengwe le le telele,lelengwe le le khutshwane,le lengwe le le telele, le lengwe le le khutshwane. - Phopholetsa popego, Dirisa popego e tonna thata kgotsa tsenya dipopego tse di farologaneng mo kgetsaneng e o kgonang go e phopholetsa. O nne le sete ya dikarata tsekedimo e o e bapisang ya dipopego. Morutwana o phopholetsa popego mo teng ga kgetsana le go e bapisa le dikarata tsekedimo. - Thala popego ya khutlonnetsepa mo moyeng, mo fatshe ka tshoko, mme kwa bofelong mo letlhare la pampiri.	Karata tsekedimo ya metshameko e e godisang temogo ya dipopego. Ulu kgotsa seloko ya motshameko. "Kgetsana e o kgonang go e phopholetsa" ka dipopego tsa thutatekano Sete ya dikarata tsekedimo tse di bapisiwang tsa dipopego mo go tsona. Pampiri ya A4 le kerayone.	Letsatsi 1
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D) Letlelela barutwana go batla didiriswa tsa khutlonnetsepa mo phaposing. **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Supa dipopego tsa khutlonnetsepa mo ditshwantshong. - Supa dipopego tsotlhe tse di rutilweng go fitlha ga jaana mo ditshwantshong. **Tlhaola didiriswa tsa tekanotlhakoretharo (3-D) le dipopego tsa tekanotlhakorepedi (2-D) go ya bogolo,mmala le popego** - Tlhaola didiriswa tse di kgobokantsweng go ya ka bogolo, mmala le dipopego.	Didiriswa tsa khutlonnetsepa mo phaposing Di[popego tsotlhe tse di ithutilweng go fitlha jaanong: Ditshwantsho tse di farologaneng ka dipopego mo go tsone 	

Beke 31	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**

5.1

Kgobokanya o tlhaole didiriswa mo tikologong go ya ka diponagalo tse di kailweng

- **Gatelela kgopolo ka ga dipalo tsa tshedimosetso ka go kgobokanya didiriswa mo phaposing kgotsa mo tikologong go ya ka diponagalo tse di kailweng sekao :malatsi a barutwana a matsalo**

Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)

Kgobokanya le go tlhaola tshedimosetso

- O dirisa karata tsekedimo ya malatsi o a matsalo, tlhomamisa gore ke malatsi a matsalo ke kgwedi efe.
- Barutwana ba thusa go dira kerafo go bona gore ke kgwedi efe e malatsi a matsalo a le mantis ka yone.
- Morutabana o thala kerafo ya dikgwedi di le 12 mo ngwageng.
- Ka thuso ya morutabana letlelela barutwana go : thala kerafo go ya ka maemo a barutwana a matsalo mo kgweding.

Karata tsekedimo ya malatsi a matsalo



5.2

Thala didiriswa tse di tlhaotseng

Ferikgong	Tlhakole	Mopitlwe	Moranang	Motsheganong	Seetebosigo	Phukwi
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

- Barutwana ba bala maina ba bo ba a kwala dipalo ya malatsi a botsalo ka fa tlase ga kgwedi e nngwe le e nngwe.
- A barutwana ba bapisa dipalo ya malatsi a matsalo a dikgwedi tse di farologaneng.

Karata tsekedimo ka leina la morutwana mo go yona.

Morutanana o botsa dipotso di tshwana le:

- "Ke kgwedi efe e e nang le malatsi a matsalo a mantis?
- "Ke kgwedi efe e e nang malatsi a matsalo a mannye?"
- "Ke dikgwedi dife tse di nang le dipalo e e tshwanang ya malatsi a matsalo? Le e e lekanang"
- "Ke dikgwedi dife tse di nang le basimane ba le bantsi ba ba ketekang malatsi a matsalo?"
- "Ke dikgwedi dife tse di nang le basetsana ba le bantsi ba ba ketekang malatsi a matsalo"?

Thala dikolomo di le 12 mo pampimosako e tonna .Supetsa ka karata tsekedimo ya leina gore malatsi a botsalo a barutwana ke leng.Dirisa +- dipampiri tse 3 tsa A2 ka dikolomo tse 12 di thadilwe mo go yona.

5.3

Tlhalosa le go neela pegelo ka didiriswa tse di tlhaotsweng

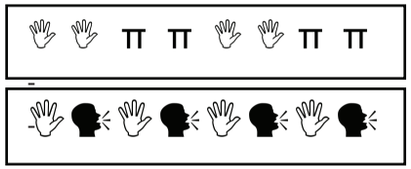
Barutwana ba buisana ka ditshwetso tse di latelang:

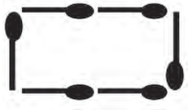
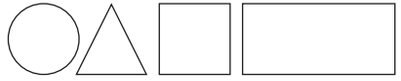
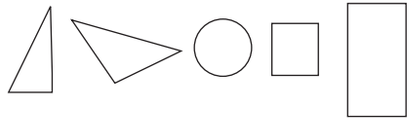
- Ferikgong e na le malatsi a mantsi a matsalo.Barutwana ba le bane ba keteka malatsi a bone a matsalo ka Ferikgong.
- Ka Mopitlwe ga go na malatsi a matsalo. Go kgwedi e le nngwe mo barutwana ba senang malatsi a matsalo.
- Dikgwedi tse dingwe di na le dikgwedi tse di lekanang tsa malatsi a matsalo jalo jalo.Ke dikgwedi dife tseo?

Beke 32 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Gatelela ka ga kitso e e amogetsweng mo bekeng ya 31 e e akaretsang palo 8** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha ka 8. Balela ka pele le kwa morago go fitlha ka 8. Balela kwa godimo o ipoeletsa 1-10 **Gatelela ka go bala letsatsi bopedi o dirisa diraeme tsa dipalo** **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 8 Botsa gore o opile diatla gantsi/gannye	Dipina tsa dipalo le diraeme	Letsatsi 1
	Metshameko ya go dirisa mmele A re tshameke motshameko: - Morutabana o tshameka ka seletswa sekao: moropa. - Barutwana ba huduga ba potologa mo phaposing. - Fa moropa o didimmala,morutabana o bitsa dipalo fa gare ga 1 go fitlha ka 8, barutwana ba ithulaganya ka ditlhopha tse dinnye sekao morutabana o bitsa barutwana ba 8,mme barutwana ba ithulaganya ka ditlhopha tsa 8 - Supetsa menwana e 8 mo diatleng tso pedi tsa gago. - Bopa disete ka barutwana.Thala didiko tse di kgolo mo motlhabeng mo fatshe. Letlelela barutwana go bopa ditlhopha tsa bo 8 mo teng ga sediko.Ditlhopha tsa bo 8 di ka dira ditiro tse di rileng mmogo mo tsamaong ya letsatsi sekao: tshameka mo sekhutlwaneng sa boloko, go ya kwa lefelong la thuto ya botsweretshi.	Moropa	

Beke 32	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Dirisa dipalo mo tirisong e e tlwaelegileng**	**Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Letlelela barutwana: - Dirisa dibadisi go lemoga gore ke dipalo efe tlang pele ga 8 le morago ga 5? Ke dipalo efe e e fa gare ga 6 le 8? - Bala didiriswa ka bobedi: o Para ya ditlhako, o Para ya dikaushu o Para ya matlho, o Para ya manyena o Para ya ditsebe, o Para ya maoto **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Fa morutabana a tsaya rejisetara ya go tsena o botsa dipotso :" A morutwana ka dipalo kgotsa aterese ya ntlo ----------o teng fa ? "Morutwana o tshwanetse go araba a bontsha fa le teng. - Boeletsa tirwana e, ka letsatsi je le latelang ka go dirisa dipalo ya mogala kgotsa dipalo ya mogala wa lotheka.	Dibadisi Para ya ditlhako,dikaushu,manyena Dikarata tsekedimo ka dipalo ya morutwana ya mogala le aterese	

Beke 32 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.7 **Tlhakanyo le Tloso**	• **Rarabolola dipalo tsa mafoko ka go Motlotlo (dipalo tsa kgang) di akaretsa palo 8** **Metshameko ya go dirisa mmele** - Morutabana o thusa barutwana go dira setlhopha sa bo 6 le setlhopha se sengwe sa bo 2: le - Kopanya ditlhopha tse pedi go dira setlhopha se le sengwe. - Botsa barutwana gore ke barutwana ba le kae mo setlhopheng se se kopantsweng? 6 le 2→8.(Morutabana a re: 6 le 2 di go naya 8) - Setlhopha sa 8 mmogo.Tlosa barutwana ba 3 mo setlhopheng se sennye.Go sala barutwana ba ba bakae mo setlhopheng se segolo sa 8 ? Dira setlhopha sa barutwana sa 8 tlosa 3→5. - Tlhopha barutwana babedi o dirisa raeme ya go bala. - Baya dithupana tse 4 mo seatleng sa morutwana a le mongwe le dithupana tse 4 mo seatleng sa morutwana yo mongwe. Go dithupana tse kae tsotlhe jaanong? 4 le 4→8. **Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3-D)** Naya morutwana mongwe le mongwe dithupana di le 8. - Tshidi o na le dithupa di le 6, tsala ya gagwe e na le dithupana tse 2. Ba na le dithupana tse kae tsotlhe? 6 le 2→8. - Monica o na le dithupana tse 8. O latlhegelwa ke dithupana tse 2.Monica o na le dithupana di le kae tse di setseng? 8 o tlosa 2→ 6. **Dirisa dikadikgonngwa go ruta ka ga didiriswa tsa tekatekanyopedi (2-D) kgotsa ditshwantsho** - Morutabana o baya ditshwantsho tse 2 mo borotong ya folanele.O oketsa ka ditshwantsho tse 5.Go na le ditshwantsho tse kae jaanong? 2 le 5→7. - Baya dipopego tse 8 mo borotong ya folanele .Tlosa tse 5.Go setse tse kae?. **8 o tlosa 5□3.**	Ditlhopha tsa barutwana Dithupa Raeme ya go bala: Dithupana Raeme: 1, 2, 3, 4, 5 Gangwe ka tshwara tlhapi e tshela 6, 7, 8, 9, 10 Ka e tlogela e itsamaela gape Dithupana Boroho ya folanele.	Letsatsi 1

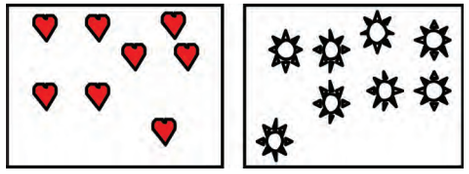
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1 **Dipaterone tsa tekano**	• **Kopisa le go atolosa paterone ka go reetsa** **Metshameko ya go dirisa mmele** Barutwana ba tsamaya go ya ka morethetho wa mmino, ba dirisa mebele ya bone. sekao . - Gata,gata,tlola,tlola..... - Tlola ka leoto le lengwe, tlola ka leoto le lengwe,tlola ka maoto a mabedi,tlola ka maoto a mabedi..... **Dirisa dikgonngwa go ruta ka ga tekanyotlhakoretharo (3-D)** Tsenyeletsa botsweretshi jwa tiragatso (mmino) mo serutweng tsa dikgono tsa botshelo Barutwana ba tsamaya ka moretheto wa mmino ka diatla a bona le go ama dirope tsa bone sekao. - Opa,opa,itaya leoto fa fatshe,itaya leoto fa fatshe(opa diatla le go itaya dirope ka diatla). - Morutabana o dira dikarata tsekedimo tsa morethetho le barutwana ba boeletsa ka go opa diatla ba latela moretheto (ba dirisa diatla go opa diatla le go itaya maoto sekao:  - Opa.opa,itaya leoto fa fatshe,itaya leoto fa fatshe..... - Opa,goeletsa,opa, goeletsa,opa,goeletsa.....	seletswa sa CD Ka mmino Go tshameka mmino o dirisa dikarolo tsa mmele	Letsatsi 1

Beke 32 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+-5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa tekanotlhakorepedi (2-D)**	**Lemoga , tlhaola le go tlhalosa dipopego tsa tekanyotlhakore** • **Gatelela kitso ka ga khutlonnetsepa** **Metshameko ya go dirisa mmele** Letlelela barutwana go: - Dira/bopa dipopego ka mebele ya bone sekao barutwana ba le 4 ba bopa khutlonnetsepa ka mebele ya bone. - Bopa khutlonnetsepa ba dirisa menwana ya bone. - Bopa khutlonnetsepa ba dirisa dithupana tsa mokgwaro e 6.  - Dira/bopa khutlonnetsepa ka dikarolo tsa wulu kgotsa tege ya go tshameka. - Tsamaya mo mothalo-ntle wa popego ya khutlonnetsepa. - Tshwara dipopego.baya dipopego tse di farologaneng mo kgetsaneng e phopholediwang. Nna le sete ya dikarata tsekedimo tse di tshwantshiwang tse di thadilweng mo dipopegong. Morutwana o tlosa popego mo kgetsaneng le go bapisa dikarata. - Thala dipopego tsa khutlonnetsepa mo moweng, motlhaba , mo folurung fa fatshe le kwa bofelong mo letlhareng la pampiri.	Dikarata tsekedimo tsa motshameko tse di godisang temoso ya dipopego. Dithupana tsa mokgwaro Ulu kgotsa seloko ya go tshameka. “Kgetsana e e phopholediwang” ka dipopego tse di farologaneng tsa thutatekano.  Akaretsa dipopego tse ditonna le tse dinnye le dikhutlotharo tsa dikhutlwana tse di farologaneng mo teng ga kgetsana e e phopholediwang sekao.  Dikarata tsekedimo tse di bapisiwang le dipopego tse di tshwantshitsweng mo go tsona Pampiri ya A4 le dikerayone	Letsatsi 1

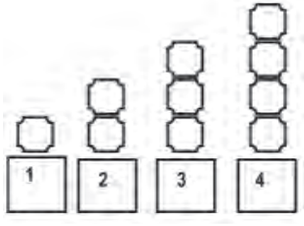
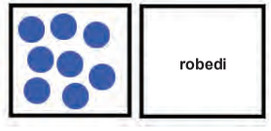
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa tekanotlhakorepedi (2-D)**	**Dirisa dikadikgonngwa go ruta ka ga dipopego tsa tekatekanotlhakoretharo (3-D)** - Letlelela barutwana go batla didiriswa tsa matlhakoremabapitekanyo ya khutlonnetsepa mo phaposing. Tshameka motshameko: “Ke efe e e nyeletseng?” - Baya nomoro ya dipopego tsa tekanotlhakorepedi (2-D) (e seng dipopego tse di fetang tse 5) mo karolwaneng ya pampiri fa gare ga mmetshe sekao dipopego go tswa mo motshamekong wa dipopego tsa Logi. - Buisana le barutwana ka ga popego e nngwe le e nngwe. - Naya barutwana tshono ya go ithuta ka tlhogo mefuta ya dipopego mo karolwaneng ya pampiri. - Barutwana ba tswala matlho a bone. - Morutabana o tlosa nngwe ya dipopego. - Barutwana ba tshwanetse ba bule matlho le go supa popego e e nyeletseng. - Boeletsa tirwana e. - Tsweletsa kgodiso ka ga dipopego tsa tekatekanyetso thuto ka go neela dikarata tsekedimo tse di farologaneng tsa motshameko jaaka “ke eng se se mo khutlonneng” kgotsa motshameko mongwe le mongwe o o leng teng.	Didiriswa tsa khutlonnetsepa tse di mo phaposing. Dipopego tse di farologaneng sekao dipopego tsa Logi.	

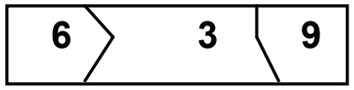
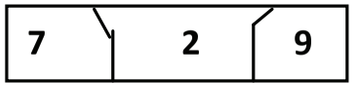
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	**Maemo a didiriswa tse pedi kgotsa tse dintsi ka kamano go e nngwe** **Metshameko ya go dirisa mmele** Letlelela barutwana: - Ema fa gare ga didiriswa tse pedi kgotsa barutwana le babedi. - Ema go bapa le mosetsana ka mosese o o botala jwa loapi. - Ema go bapa le mosimane ka diramphetšhane tse di khonou - Tsamaya fa gare ga dibokoso. - Gagaba o potologa tafole. - Gagabela ka fa tlase ga setilo. - Baya setilo fa pele ga gago. - Baya setilo ka fa morago ga gago. - Ema fa godimo ga setilo. - Dula mo setilong. - Baya setilo mo godimo ga gago. - Baya setilo go bapa le wena. - Baya setilo mo letlhakoreng la molema/le mo letlhakoreng ;la moja.	Ditulo tse 2 .	Letsatsi 1
	Dirisa didiriswa go ruta ka ga tekanotlhakoretharo (3-D) - Letlelela barutwana go feleletsa diphasele ka ditshwantsho tsa batho kgotsa diphologolo. - Tsenya thapo mo dibageng go ya ka ditaelo tsa morutabana sekao tsenya sebaga se se khibidu, tsenya sebaga sa mmala yo o tala go bapa le mohibidu jalo jalo. - Tsenya dibaga go ya ka setshwantsho se se neilweng se latelelana. **Dira ka ditlhopha tse dinnye.**Morutabana o naya morutwana mongwe le mongwe papetlana ya diphekese le diphekese tse di tletseng ka seatla.. Naya ditaelo tse di latelang: - Baya diphekese tse pedi tse khibidu kwa sekhutlwaneng se se kwa molemeng. - Baya phekekese e le nngwe e tala kwa mojeng wa phekese e khibidu. - Baya phekese e le nngwe e botala jwa loapi mo tlase ga tala jj.	Diphasele Dibaga Boroto ya dipekese le dipekese 	
	Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D) Thala batho kgotsa diphologolo kwa ntle ga matsogo/maoto le go kopa barutwana go di feleletsa.	Letlhare la tiro le ditshwantsho.	

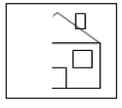
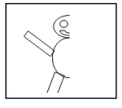
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Gatelela kitso e e amogetsweng mo bekeng ya 31 le 32 e e akaretsang dipalo 1 go fitlha go 8** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha ka 8. Baela ka pele le kwa morago go fitlha ka 8. Balela kwa godimo o ipoeletsa 1-10 **Gatelela go Bala letsatsi bo pedi o dirisa diraeme** **Gatelela palokemotatelano**: Morutabana o paka didiriswa tse 8 mo moleng.O supa sediriswa a ntse a bala ya ntlha,ya bobedi,ya boraro,ya bone,ya botlhano. **Gatelela dikgopolo ka ga "bontsi le "bonnye".** Opa diatla gantsi……..EMA. Opa diatla go gonnye. Morutabana o opa diatla go fitlha ka 8 Botsa gore o opile diatla gantsi/gannye	Dipina tsa dipalo le diraeme	Letsatsi 1
	Metshameko ya go dirisa mmele - Barutwana ba dirisa mebele ya bone go bopa matshwaopalo. - Morutabana o dira dipalo go tswa mo didirisweng tse di farologaneng, barutwana ba a di phopholetsa sekao pampiri ya motlhaba, seloko/thudi. - O bua diraeme tsa dipalo/o opela dipina.	Matshwaopalo a matonna a dirilwe ka pampiri e e magwasipa	
	Dirisa dikgonngwa go ruta ka ga didiriswa tsa tekanotlhakoretharo (3 -D) - Dirisa didiriswa jaaka diboloko le diphologolo tsa polasitiki. - Di bale, di tlhaole,baya tse robedi mo moleng jalo jalo. Kgaoganya barutwana ka ditlhopha. Baya mokoa wa diphologolo tsa polasitiki mo gare ga setlhopha sengwe le sengwe: Letla barutwana go : - Dira ka dipara mo ditlhopheng le go fopholetsa gore diphologolo di kae mo thotong. - Para e nngwe le e nngwe e tsaya dikarata tsekedimo tsa dipalo a di bapisa dipalo - Bala dipalo e e siameng ya diphologolo. - Barutwana ka bobedi ba ka nna ba bewa letshwao la na ledi mo phatlheng tsa bone. - Boeletsa ka go baya palo ya diphologolo tse di farologaneng fa gare ga mmetshe.	Diboloko le diphologolo tsa polasitiki Diphologolo tsa polasitiki tsa dipolase tse 9 Disete tse di mmalwa tsa dikarata tsekedimo tsa matshwao. Go akgola o dirisa matshwao a dina ledi	

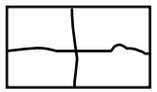
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.3 **Matshwaopalo le dipaloina**	**Lemoga matshwao a dipalo le mainapalo a a akaretsang dipalo tse di simololang ka 1 go fitlha ka 8** **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Bapisa matshwaopalo le ditshwantsho tse di maleba. - Morutwana a tlhaloganye gore setlhopha sa didiriswa se ka nna le palo e e tshwanang ya didiriswa. tse di fopholeditsweng.  Barutwana ba supe sediriswa sengwe le sengwe fa ba ntse ba bala. - Barutwana ba tshwanetse ba kgone go bapisa sediriswa sengwe le sengwe go didiriswa tse dingwe sekao papiso ya pelo e le nngwe go letsatsi le le lengwe. - Bapisa karata tsekedimo e e nang le setshwantsho, karata tsekedimo ya marontho, letshwaopalo le karata tsekedimo ya leinapalo e e nang le dibadisi tse di tshwanang.	Dikarata tsekedimo tse di nang le ditshwantsho le matshwaopalo Dibadisi  Sete ya dikarata tsekedimo tsa dipalo tse di akaretsang palo e e simololang ka 1 go fitlha ka 8	

Beke 33 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, bapisa le Thulaganyo ya dipalo**	• **Rulaganya le go bapisa didiriswa tse di kgobokantsweng o dirisa "go feta, / go nnye go feta" le "go lekana le" go fitlha go 8** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha go 8 Balela kwa pele le kwa morago go fitlha ka 8. **Dirisa dipalo go raema go gatelela o bala ka bobedi.** Gatelela kgopolo ka "bontsi" le "mmalwa" Opa diatla gantsi …… EMA. Opa diatla mmalwanyana.Morutabana o opa diatla go fitlha ka 8. **Metshameko ya go dirisa mmele** - Morutabana o baya diboloko di le 8 mo godimo ga tafole. Kwa ntle ga go di bala ba fopholetsa palo ya diboloko - Morutabana o a botsa: o "A go na le diboloko di le dintsi go feta tse 3?" o Barutwana ba tlhomamisa karabo ya bona ka go bala diboloko" o "Phopholetso ya gago e bogaufi jo bokae ?" o **Dirisa didiriswa tsa di kgonngwang tsa tekanotlhakoretharo (3-D)** - Bopa ditlhopha tsa barutwana ka bone. Naya setlhopha sengwe le sengwe dibadisi di le 8 le kaba tse ditonna tse pedi go tshwantshitswe didiko tse pedi mo go tsone. Bitsa didiko o re dintlhaga. - Mo ditaelong tsa morutabana, barutwana ba baya dibadisi mo sentlhageng sengwe le sengwe le go Motlotlo gore Dibadisi di kae. - Barutwana ba bapisa "dintlhaga" le go tlhomamisa gore ke sentlhaga sefe se se nang le palo ya dibadisi tse dintsi go feta" "nnye go" "e tshwana le" kgotsa "e lekana le"	Dipina tsa palo le diraeme Diboloko Dibadisi Kaba ya A4 e e nang le dintlhaga tse pedi tse di tshwantshitsweng mo go yone. 	Letsatsi 1

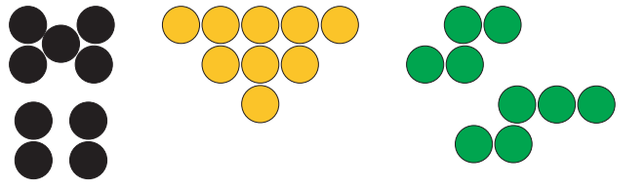
Beke 33 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, bapisa le Thulaganyo ya dipalo**	Kgaoganya barutwana ka ditlhopha - Naya setlhopha sengwe le sengwe popego taese tse dintsi le sete ya dikarata tsekedimo tsa letshwaopalo tse di akaretsang palo e e simololang ka 1 go fitlha ka 8 - Letlelela ditlhopha go aga diterio le go tshwaya torio nngwe le nngwe go ya ka palo ya popego taese tse dintsi sekao:  **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o bontsha dikarata tsekedimo tse pedi tse di farologaneng tse di nang le palo ya marontho a a farologaneng le ditshwantsho mo go tsone. - Letlelela barutwana go bapisa dikarata tsekedimo tsa ditshwantsho le marontho gore ba kgone go lemoga gore ke tsefe tse dintsi go feta", tse dinnye go" le tse di lekanang le".	popego taese Dikarata tsekedimo tsa matshwaopalo 1-8 Lerontho le karata tsekedimo ya setshwantsho  	
1.13 **Tlhakanyo le Tloso**	• **Rarabolola mathata a boletsweng a tlhakanyo le tloso go fitlha 8** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha ka 8. Balela kwa pele le kwa morago go fitlha ka 8. Gatelela go Bala letsatsi bopedi o dirisa diraeme tsa dipalo. **Gatelela kgopolo ka ga "bontsi" le "mmalwa".** Opa diatla gantsi…….EMA. Opa diatla mmalwanyana.Morutabana o opa diatla go fitlha ka 8. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye.	Dipina tsa palo le diraeme	Letsatsi 1

Beke 33	Nako e e tshitshintsweng ya go ruta		
Kitsiso	Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.13 **Tlhakanyo le Tloso**	**Metshameko ya go dirisa mmele** Dikai**:** 1. Morutabana o biletsa barutwana ba le 3 kwa pele. Barutwana ba a ba bala.Morutabana o bitsa ba bangwe ba babedi le go ba botsa gore go barutwana ba le kae botlhe? 3 le 2→5(Morutabana a re: 3 le 2 di dira 5) 2. Morutabana o pakolola ditulo tse 2. O oketsa ka tse 2. Ditulo di kae jaanong? 2 le 2→4. 3. Morutabana o tsholetsa letsogo le lengwe. A re “Bala menwana ya me. Fa ke fitlha monwana o le mongwe, o bona menwana e le kae? 5 re tlosa 1→4. 4. Letlelela barutwana go bala menwana mo go lengwe la diatla tsa bone. Fitlha monwana o le mongwe, o bona menwana e le kae? 5 o tlosa 1→ 4. **Tiriso ya dikgonngwa tsa didiriswa tsa tekanotlhakoretharo (3-D)** Letlelela barutwana go pakolola dibadisi tse 6 le go dira se se latelang: - Morutabana o naya morutwana mongwe le mongwe dibadisi di le 6. Morutabana o neela ka ditaelo mme barutwana ba a araba sekao: pakolola dibadisi tse 2, oketsa ka tse 3. tsotlhe di kae ?. 2 le 3 → 5. - Bala dibadisi tse 4. Bala tse 2 go tloga ka nne.O na le tse kae jaanong? 4 le 2 → 6. - Bala dibaga tsotlhe tse o nang le tsone. Fa o huparela dibaga tse pedi ka seatla sa gago,o bona dibaga tse kae? 6 o tlosa 2 → 4. **Dirisa dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekanotlhakorepedi (2-D)** Dira malepa /malea a dipalo le go letlelela barutwana go tlhotlhomisa ka go a dirisa malea/ diphasele.  	didiriswa kgotsa dibadisi Malepa/diphasele tsa dipalo	

Beke 33 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) +- metsotso e le 30 ka letsatsi (+- 5 ditirwana tsa dipalo mo bekeng)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa tekanotlhakorepedi (2-D)**	**Lemoga , tlhaola le go tlhalosa dipopego tekanotlhakorepedi (2-D)mo ditshwantshong .** **Ponokakanyo** • **Tlhopha dikarolo go tswa go palo e e feletseng** **Metshameko ya go dirisa mmele** Morutabana o tlhalosa sediriswa le go botsa barutwana gore ke eng sekao: - "Ke gopotse sengwe se se khibidu, se na le maotwana a le mane, dikgoro tse nne le letlhabaphefo le le bulegang,e dira modumo "wroom" .Tiro e e ka dirwa ka ditlhopha mme ya fetolelwa go nna kgaisano - setlhopha se sengwe se tshwanetse go tlhalosa , se sengwe se tshwanetse go fopholetsa sediriswa seo.' - Tlhalosa motho o laele barutwana go tlhopha motho yoo. **Dirisa dikadikgonngwa tsa dipopego tsa tekanotlhakorepedi (2-D)** - Bontsha morutwana setshwantsho le go mo letlelela go se lebelela. Se tlose ,o kope morutwana go tlhalosa ka botlalo se a se gopolang. - Tsaya ditshwantsho ka bongwe ka bongwe. Segolola dikarolwana go tswa mo ditshwantshong. Tsenya dikarolwana le ditshwantsho mo teng ga lebokoso, kopa barutwana go lebelela dikarolwana tsa setshwantsho se se tlhaelang sa setshwantsho se ba se ntshitseng. - Thala ditshwantsho tse di sa felelang mo letlhareng la pampitshana mme lo lope barutwana go feleletsa setshwantsho.	Setshwantsho sengwe le sengwe Ditshwantsho ka dikarolwana tse di segolotsweng Setshwantsho se se sa felelang  	Letsatsi 1

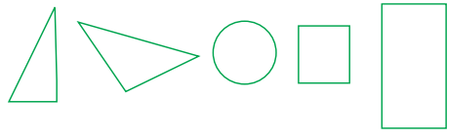
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlegenesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.4 **Tekano**	• **Godisa temoso gore mmele wa motho o na letlhakore la moja le la molema tse di kgonang go tshikinyega di ikemetse .** **Metshameko ya go dirisa mmele** - Tsenya rekere mo letsogong la morutwana mongwe le mongwe la moja. - Opela pina ya go itshikinya “ke tsenya leoto la me la moja mo teng” Letlelela barutwana: - Go baya seatla sa moja mo ditlhogong tsa bona. - Ama lengole la molema ka sekgono sa moja. - Ama legetla la moja ka letsogo la molema jalo jalo	Dipina tse di opelwang o itshikinya/raema sekao :. “ ke baya kgato ya molema mo”	Letsatsi 1
	Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo 3-D Naya morutwana mongwe le mongwe boloko jwa go aga Letlelela barutwana go dula mo mmetsheng le : - Baya boloko mo letlhakoreng la moja/ mo letlhakoreng la molema. - Mo legetleng la molema / le la moja. - Mo lengoleng la molema / le la moja. - Mo leotong la molema / le la moja jalo le jalo.	Boloko ya mongwe le mongwe	
	Tiriso dikadikgonngwa tsa dipopego kgotsa ditshwantsho tsa tekatekanyo tlhakorepedi (2-D) - Morutwana mongwe le mongwe o newa letlhare la pamphitshana le kerayone. - Letlelela barutwana go thala mola mo gare ga letlhare la pamphitshana go tloga kwa godimo go ya kwa tlase le mola o mongwe fa gare go tloga kwa molemeng go ya kwa mojeng. - Morutabana o neela ditaelo: o Baya monwana wa gago mo gare ga sefapano. o Thala sediko mo godimo kwa molemeng wa boloko. o Thala khutlotharo mo bolokong kwa tlase mo mojeng. o Thala khutlo-nne mo bolokong mo mojeng kwa godimo. o Thala khutlonne-tsepa mo bokolong mo molemeng kwa tlase . - Tlotlang ka setshwantsho sa posetara. Barutwana ba araba dipotso tse di ba kgontshang go tlhalosa (kwa ntle ga go supa) maemo a dilo mo ditshwantshong.	Letlhare la pamphitshana 	

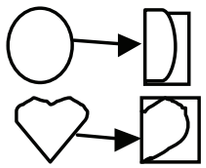
Beke 34	Nako e tshitshintsweng ya go ruta : Tirwana e le nngwe e baakantsweng e kaelwa ke morutabana (mosako) ya ± 30 metsotso ka letsatsi(± 5 Ditirwana tsa beke tsa dipalo)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa.**	• **Tlhagiso ya bokao jwa palo ya ga 9** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha go 9. Balela kwa pele le kwa morago go fitlha go 9. Gatelela ka go bala ka bobedi o dirisa dipalo tsa go raema. **Gatelela lebaditatelano**: Morutabana o paka didiriswa tse 6 mo moleng.Supa sediriswa sengwe le sengwe o ntse o bala : sa ntlha, sa bobedi,sa boraro,sabone,sa botlhano,sa borataro . **Gatelela kgopolo ka ga "bontsi" le "mmalwa"** Opa diatla gantsi…….EMA. Opa diatla mmalwanyana.Morutabana o opa diatla go fitlha go 9. Botsa gore ke palo efe ya go opa diatla e e ntsi/tlase. **Metshameko ya go dirisa mmele** Letlelela barutwana: - Bala go fitlha go 9 o ntse o palama mepalamo. - Thala palo ya ga 9 mo mmung / foluru / fa fatshe mme o tsamaye mo godimo ga yone. - Opa diatla ga 9. - Lemoga dipalo tsa 1 - 9 ka matshwao a dipalo tsa disete tse dikgolo. - Dirisa dikakanyo tsa gago go letlelela barutwana go itemogela bokao jwa palo ya 9 ba dirisa mebele ya bone.	Dipina tsa palo le diraeme Baakanya matshwaopalo a matonna	Malatsi 2

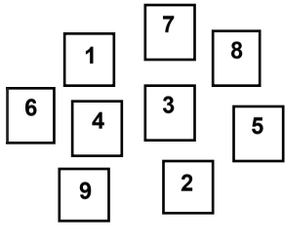
Beke 34	Nako e tshitshintsweng ya go ruta : Tirwana e le nngwe e baakantsweng e kaelwa ke morutabana (mosako) ya ± 30 metsotso ka letsatsi(± 5 Ditirwana tsa beke tsa dipalo)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.6 **Dithegeniki tsa tsa tharabololo ya dipalo**	**Tiriso ya dikgonngwa tsa tekanotlhakoretharo (3-D)** Morutabana o bopa molapalo kgotsa llere ya dipalo mo folurung kgotsa fa fatshe - Morutabana o neela ditaelo di tshwana le: - Simolola ka nako tsotlhe ka go ema fa godimo ga lefela kgotsa o simolole fa go lefela. - Bala ka nako tsotlhe o ntse o tsamaya. - Tswelela go ya kwa palong ya 5. Boela kwa morago go 2. Tsamaela kwa pele go 8. - Tswelela go ya kwa go 8. Tsamaela kwa pele go 1. Tsamaela kwa morago go 2. - Ke palo efe e e latelang mo morago ga 3? - Ke palo efe e e tlang pele ga 7 - Godisa temoso ka ga tshomarelo ya dipalo ka go letlelela barutwana go paka dibadisi tse robongwe kgotsa go paka didiriswa ka ditsela tse di farologaneng sekao:  Fa o bala, palo ya didiriswa ga e amiwe ke bogolo jwa tsone, kgotsa maemo kgotsa ke mefuta e e tshwanang sekao: - Rulaganya ditalama di le 9,dipensele tse 9, dihula hupu tse 9, barutwana ba le 9 jalo jalo. - Bala go ya ka dithulaganyo tse di farologaneng,sekao di bale o di anamisitswe, di bapile,mo moleng kgotsa di tlhatlhagane. **Tiriso ya dipopego kgotsa ditshwantsho tsa dikgonngwa tsa tekanotlhakorepedi (2-D)** Dirisa palo ya 9 mo tirisong e e tlwaelegileng Letlelela barutwana go: - Bapisa karata tsekedimo ya setshwantsho le ya marontho a a tshwanang.Paka palo ya dibadisi tse di tshwanang.	Llere ya dipalo	Malatsi 2

Beke 34	Nako e tshitshintsweng ya go ruta : Tirwana e le nngwe e baakantsweng e kaelwa ke morutabana (mosako) ya ± 30 metsotso ka letsatsi(± 5 Ditirwana tsa beke tsa dipalo)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.3 **Matshwaopalo le dipaloina**	• **Lemoga matshwao a palo le la leinapalo** **Metshameko ya go dirisa mmele** - Baya didiriswa di le 5 mo moleng. - Letlelelwa barutwana go di lebelela ka leitlho le lentshotsho. - Barutwana ba lebelela go sele mme morutabana o tlosa sediriswa se le sengwe. - Barutwana ba tshwanetse go mmolelela gore ke sediriswa sefe se se tlositsweng. - Busetsa didiriswa le go boeletsa kgapetsa kgapetsa le go tswelela ka go tlosa didiriswa tse 2 kgotsa go feta. Letlelela barutwana : - Tlhopha letshwaopalo la 9 le leinapalo fa gare ga dikarata tsekedimo tse dingwe. - Baya karata tsekedimo ya letshwaopalo mo thulaganyong e e siameng fa fatshe. - Baya karata tsekedimo ya letshwaopalo mo thulaganyong e e phatlhaletseng. Kgaoganya barutwana ka ditlhopha tse dinnye. Morutabana o naya setlhopha sengwe le sengwe dikarata tsekedimo tsa letshwaopalo. Neela barutwana ditaelo sk: - Ama palo 4, baya sekgono sa gago fa palong ya 8, dula fa godimo ga 3, dikologa palo ya bo 5 ga tlhano jalo jalo. - Tshameka metshameko ka go golaganya palo ya dibadisi ka leinapalo, letshwaopalo,marontho le ditswhantsho. - Netefatsa gore letshwaopalo le leinapalo ka gale le golaganngwa le palo ya didiriswa tse di tshwanang.	didiriswa tse 5 (go gopola go ya ka pono) Dibadisi  Disete tsa dikarata tsekedimo tse di mmalwa tse di akaretsang palo ya 1 go fitlha ka 9  Dikarata tsekedimo tsa letshwaopalo le leinapalo,marontho le ditshwantsho sekao  Dibadisi	

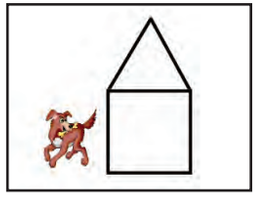
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso, le dipono**	**Latela dikaelo ka go tsamaela kgotsa go ipaya fa gare ga boalo jo bo kgethegileng** • **Godisa kgopolo ka ga dikaelo** **Metshameko ya go dirisa mmele** - Thala khutlo-tharo e tonna, kgotsa khutlonne fa fatshe/mo folorung. - Barutwana ba tsamaya go bapa le popego ba goeletsa godimo go supa gore ba retologela kwa molemeng kgotsa kwa mojeng. **Tiriso ya dikgonngwa tsa didiriswa tsa tekanyotlhakoretharo (3-D)** Thala khutlotharo e tonna, kgotsa khutlonne mo letlhareng la pampitshana, o e beye mo fatshe. Letlelelela morutwana a le mongwe go: - kgorometsa sejanaga sa go tshameka fa thoko ga mela. - barutwana botlhe ba otlolola diatla tsa bone tsa molema kgotsa tsa moja. Letlelela barutwana go : - tlhalosa didiriswa go tswa mo kakanyong tse di farologaneng sekao mpopisi (kwa pele/ kwa morago) ntlo (kwa pele/kwa morago), kwa pele/kwa morago ga sekolo, sejanaga (kwa pele/kwa morago),go tswa gore o eme fa kae. - barutwana ba tlhalosa se ba se bonang sekao fa go na le setlhare fa pele ga ntlo, ba tlhalosa maemo a setlhare. **Tiriso ya dikadikgonngwa tsa tekanotlhakorepedi (2-D) kgotsa ditshwantsho** - Letlelela barutwana go itemogele kgopolo ka ga Kwa pele/kwa morago ka go supa kwa ntlheng ya setshwantsho.	Dipopego tse dikgolo tse di thadilweng mo letlhareng la pampiri sejanaga sa go tshameka Mpopisi Ntlo ya nnete sejanaga Ditshwantsho tse di supetsang ka botlalo dintlha sekao kwa ntlheng e sejanaga e yang gone ,kwa ntlheng e motho e yang gone.	Letsatsi 1

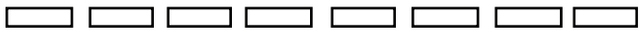
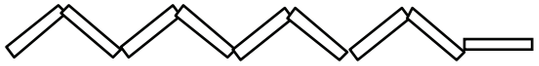
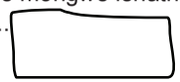
Beke 34	Nako e tshitshintsweng ya go ruta : Tirwana e le nngwe e baakantsweng e kaelwa ke morutabana (mosako) ya ± 30 metsotso ka letsatsi(± 5 Ditirwana tsa beke tsa dipalo)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa tekanotlhakorepedi (2-D)**	**Lemoga, supa le naya leina la tekanopopegotlhakorepedi(2-D) mo phaposing le mo ditshwantshong le go di tlhaola** • **Gatelelela kitso ka ga sediko,khutlotharo,khutlonne le khutlonne-tsepa** **Metshameko ya go dirisa mmele** Letlelela barutwana go ema ka bobedi ka bobedi. - Thala popego mo mokotleng wa tsala ka monwana.Morutwana yo mongwe a bolele gore ke popego ya mofuta mang. **Tiriso ya diriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** Neela ka dipopego tsa thutatekano tsa bogolo le bokima jo bo farologaneng. Letlelela barutwana go: - tlhaola dipopego tsa thutatekano go ya ka sekao didiko, dikhutlo-tharo, dikhutlo-nne le dikhutlonne-tsepa. - tlhaola dipopego tsa thutatekano go ya ka bogolo. - tlhaola dipopego tsa thutatekano go ya ka mmala. **Tiriso ya dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekatekanyogopedi (2-D)** Letlelela barutwana go: - segolola dipopego tse di umakilweng fa godimo go tswa mo letlhareng la pampitshana. Akaretsa dipopego tse dikgolo le tse dinnye, dikhutlotharo ka dikhutlo tse di farologaneng. - Tlhaola dipopego tsotlhe tse di farologaneng. - Rulaganya setshwantsho se se nang le dipopego tse di segolotsweng, o di dirise ka nako ya thuto ya botsweretshi.	Dipopego tse di farologaneng Letlhare le le nang le didiko,dikhutlotharo le dikhutlonne le dikhutlonne-tsepa mo go lone.sekao.  Akaretsa dipopego tse dikgolo le tse dinnye tsa dikhutlo tse di farologaneng sekao 	Letsatsi 1

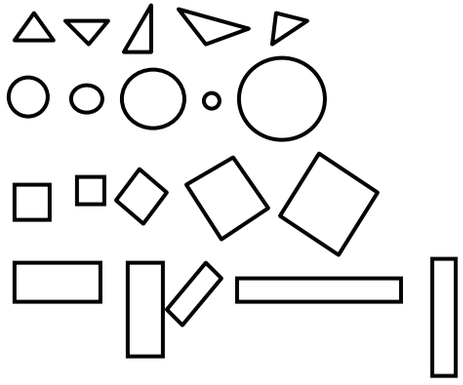
Beke 34	Nako e tshitshintsweng ya go ruta : Tirwana e le nngwe e baakantsweng e kaelwa ke morutabana (mosako) ya ± 30 metsotso ka letsatsi(± 5 Ditirwana tsa beke tsa dipalo)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.4 **Tekano**	• **Godisa temoso ya gore go na le tekatekano mo didirisweng** **Tiriso ya didiriswa tsa tekanotlhakoretharo (3-D)** - Batla didiriswa tsa nnete tse di bontshang tekatekano(Letlhakore le lengwe le tshwana le letlhakore le lengwe ka fa ntlheng e nngwe) sekao serurubele, letlhare la tšheše jalo jalo. - Morutabana le barutwana ba kgobokanya ditshwantsho tse di nang le methalo e e nang le tekatekano sekao methalo e e thadilweng mo ntlong, methalo ya dithaele,methalo ya setshwara-malomo le pharatshuti jalo jalo. **Tiriso ya dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekanotlhakorepedi (2-D)** - Barutwana ba segolola popego ya pelo kgotsa setshwara-malomo go tswa mo letlhareng le le minilweng ka halofo le go e kgabisa ka nako ya thuto ya botsweretshi jwa pono.	  kgapetlana ya letlhare le le minilweng ka halofo	Letsatsi 1

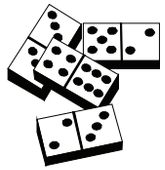
Beke 35	Nako e e tshitshintsweng ya go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Gatelela kitso e eo e unguleng (boneng) mo bekeng ya 34 e e akaretsang palo ya bo 9.** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha go 9. Balela kwa pele le kwa morago go fitlha go 9. Bala o ipoeletsa go tloga go 1-10 Gatelela ka go bala ka bobedi o dirisa dipalo tsa diraeme Gatelela kgopolo ka ga “bontsi” le “bonnye” Opa diatla gantsi…….EMA. Opa diatla ga nnye. Morutabana o opa diatla go fitlha go 9. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye.	Dipina le raeme ya dipalo	letsatsi 1
	Metshameko ya go dirisa mmele A re tshamekeng motshameko: Morutabana o baya dipopego tsa dipalo tsa karata ya boroto e kgolo kgotsa dikarata tse di akaretsang dipalo go tloga go 1 go ya go 9 mo fatshe. Morutabana o neela barutwana ditaelo jaaka**:** - Dula mo godimo ga 6. - Baya monwana wa gago wa maoto mo godimo ga 3. - Taboga o dikologe palo ya 2 gararo. - Tlola tlola mo godimo ga 1. - Morutabana a ka nna a phatlhalatsa dikarata tsa matshwaopalo.	Sete ya dikarata tsekedimo tsa khateboto tse dikgolo di nang le matshwaopalo. O kgona go penta dikgapetla tsa polasitiki kgotsa khateboto 	
1.4. **Tlhalosa,bapisa le go rulaganya dipalo**	• **Dirisa dipalo mo tirisong e e tlwaelegileng** **Tiriso ya didiriswa tsa dikgonngwa tsa tekanotlhakoretharo (3-D)** Letlelela barutwana: - Bala didiriswa mo phaposing - Bala dibadisi - Morutabana o baya didiriswa ka tlhatlhagano mo godimo ga tafole.Letlelela barutwana go fopholetsa gore didiriswa di kae mo tafoleng. Morago o di bale.	Dibadisi Didiriswa mo phaposing	Letsatsi 1

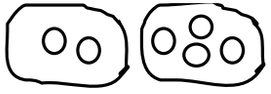
Beke 35	**Nako e e tshitshintsweng ya go ruta:** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
Lemoga matshwaopalo le mainapalo	**Tiriso ya dipopego tsa dikadikgonngwa tsa tekanotlhakorepedi (2-D)** Letlelela barutwana go: - tshameka metshameko ka go golaganya palo ya dibadisi go leinapalo,letshwaopalo, marontho le karata ya setshwantsho. - Netefatsa ka gale gore letshwaopalo le leinapalo di golagantswe le palo e e tshwanang ya didiriswa. - Latela motlhala wa palo ya 9 ka kerayone.	Karata tsekedimo e e nang le letshwaopalo le leinapalo, marontho le ditshwantsho sekao.  Dibadisi, kerayone	
1.7 **Tlhakanyo le tloso**	• **Rarabolola ka motlotlo wa dipalo tsa mafoko (dipalo tsa dikgang khutswe) tse di akaretsang palo 1 go fitlha go 9 mo tirisong.** **Metshameko ya go dirisa mmele** - Tlotla kgang ka ga setlhare se se nang le nonyane e le nngwe mo go sone. Nonyane e nngwe e kopana le e nngwe. Go na le dinonyane tse kae jaanong? Barutwana ba diragatsa kgang khutswe e, ba dirisa mmamatlhwane. 1 le 1 e go naya 2. Boeletsa kgang e, go fitlhela go na le dinonyane tse 9 **Tiriso ya didiriswa tsa dikgonngwa tsa tekanotlhakoretharo (3-D)** - Tsala e le nngwe e na le dibadisi di le 8 sekao diphologolo tsa polasitiki mme tsala ya gagwe e na le e nngwe go feta. Ba na le diphologolo tsa polasitiki tse tsotlhe di le kae? 8 le 1 → 9 **Tiriso ya dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Naya morutwana mongwe le mongwe letlhare la pampitshana ya tirwana le le nang le setshwantsho sa setlhare mo go lona. Barutwana ba baya padisi e le nngwe mo godimo ga setlhare. Ba tswelela ba oketsa padisi e le nngwe ka nako e le nngwe mo setlhareng.	Setshwantsho ss setlhare se segolo Dibadisi tse 9 Letlhare la tirwana le le nang le setshwantsho sa setlhare le dibadisi	Letsatsi 1

Beke 35	Nako e e tshitshintsweng ya go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	• **Tlhalosa kamano ya didiriswa tse pedi go ya ka maemo ya tsona** **Metshameko ya go dirisa mmele** - Morutwana o kopa tsala go ema fa gare ga didiriswa di le pedi/kgotsa fa gare ga barutwana. - Morutwana o kopa tsala go ema go bapa le mosetsana yo o apereng mosese o botala jwa loapi - Morutwana o kopa tsala go ema go bapa le mosimane yo o rweleng diramphetshane tse di khunou. **Tiriso ya dikgonngwa tsa tekanotlhakoretharo (3-D)** • Pega thudi fa gare ga didiriswa tse pedi. • Barutwana ba pega diaparo tsa nnete go ya ka ditaelo tse di kgethegileng sekao: - "pega hempe mo letlhakoreng la moleme la thudi ya diaparo." - "pega mosese mo letlhakoreng la moja la hempe" - pega sakatuku go bapa le .....jalo jalo." - "pega borukgwe fa gare ga ….. jalo jalo." **Tiriso ya dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekanotlhakorepedi (2-D)** • Thala setshwantsho sa ntlo go ya ka ditaelo sekao. - Thala marulelo kwa godimo mo letlhareng - Thalamabota a ntlo fa gare ga letlhare jalo jalo - Thala ntswa mo letlhakoreng la molema la ntlo. Letlhare le se ka la nna le tonna thata go netefatsa gore dipopego tse di farologaneng di a amana go dira setshwantsho sa ntlo. 	 Letlhare la pampitshana dikerayone	Letsatsi 1

Beke 35	Nako e e tshitshintsweng ya go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa tekanotlhakorepedi (2-D)**	**Lemoga,tlhopha le go neela maina a dipopego tsa tekanotlhakorepedi mo phaposing le mo ditshwantshong:** - **Tshomarelo ya popego** • **Gatelela kitso e e ungulweng ka ga khutlonne-tsepa** **Tshomarelo ya popego ke bokgoni jwa go farologanya gare ga dipopego mo tikologong ya rona go sa kgathalesege bogolo jwa tsone kgotsa bogolo jwa dikhutlo tsa tsone.** **Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** kgaoganya barutwana ka ditlhopha. - Naya setlhopha sengwe le sengwe diboloko tsa bogolo jo bo farologaneng tsa popego ya dikhutlonne-tsepa tse 9. Letlelela barutwana go : - tlhaola diboloko tsa dipopego tsa dikhutlonne-tsepa ka ditlhopha tsa bogolo jo bo lekanang. - bala palo ya diboloko tsa kago. Morutabana o neela ditaelo tse di latelang: - Baya diboloko tsa dipopego tsa dikhutlonne-tsepa mo moleng o o rapaletseng.  - Baya diboloko tsa dipopego tsa dikhutlonne-tsepa mo maemomg a a tlhamaletseng.  - Baya diboloko tsa dipopego tsa dikhutlonne-tsepa mo moleng yo o matshweka  - Morutabana o naya morutwana mongwe le mongwe lenathwana la wulu. Barutwana ba bopa popego ya khutlonne-tsepa ka wulu..  Morutabana o supa gore popego ya khutlonne-tsepa ya morutwana mongwe le mongwe e a farologana, mme fela e santse e le khutlonne-tsepa.	Setlhopha sengwe le sengwe se newa diboloko tsa bogolo jo bo farologaneng tsa popego ya dikhutlonne-tsepa tse 9 Lenathwana la wulu	Letsatsi 1 Tlhopha ditrwana tse di rileng

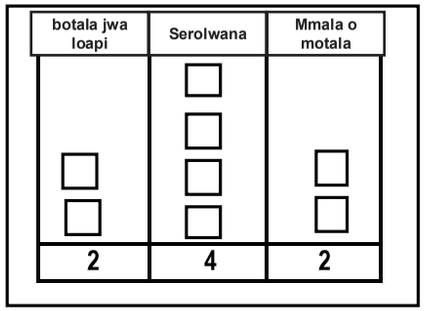
Beke 35	Nako e e tshitshintsweng ya go ruta: Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.3 **Dipopego tsa tekanotlhakorepedi (2-D)**	**Tiriso ya dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekatekanotlhakorepedi (2-D)** - Morutabana o thala dikarata tsekedimo tse 20 tse di farologaneng, nngwe le nngwe ka dikhutlo tse tlhano tse di farologaneng, didiko, dikhutlonne le dikhutlonne-tsepa mo go tsone sekao.  Morutabana o kgaoganya barutwana ka ditlhopha. Letlelela barutwana go: - tlhaola karata tsekedimo ya popego ya khutlonne-tsepa fa gare ga dipopego tse dingwe Letlelela barutwana go: - tlhaola ditshwantsho tsotlhe tsa ditšheše fa gare ga ditshwantsho tsa ditlhare le matlhare jalo jalo.	Dikarata tsekedimo ka dikarata tsekedimo tse 20 tse di farologaneng, mongwe le mongwe ka dikarata tsekedimo tse tlhano tsa dikhutlotharo ,didiko,dikhutlonne le dikhutlonne-tsepa mo go tsone.	

Beke36	Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Tlhaloso ya dintlha**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	**Gatelela kitso e e ungulweng (boneng) e e akaretsang palo go tloga ka 1 go fitlha ka 9** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha go 9. Balela kwa pele le kwa morago go fitlha go 9. Gatelela go bala ka bobedi o dirisa dipalo tsa diraeme **Gatelela kgopolo ka ga "bontsi" le bonnye"** Opa diatla gantsi…….EMA. Opa diatla ga nnye. Morutabana o opa diatla go fitlha go 9. **Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** - baya didiriswa ka ditlhopha tse di akaretsang palo go tloga go 1 go fitlha go 9, o balele didiriswa kwa godimo. - tshameka ditomino tsa dipalo	Dipina tsa dipalo le diraeme  Didiriswa mo phaposing. ditomino tsa dipalo	Letsatsi 1
	Tiriso ya dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekanotlhakorepedi (2-D) Naya morutwana mongwe le mongwe karata ya setshwantsho,lerontho,letshwaopalo kgotsa leinapalo Barutwana ba araba ka go latela ditaelo tsa morutabana - Barutwana ba dula mo sedikong. - Morutabana o bitsa palo sekao 9. Barutwana ba tshwereng karata tsa setshwantsho, lerontho, letshwaopalo le leinapalo le le emelang 9, ba potologa sediko, ba re: "ke na le tse robonngwe" - Boeletsa ka dipalo tse dingwe. - Fa mongwe le mongwe a bone tshono ya go nna palo, bitsa dipalo ka thulaganyo. - Barutwana ba a ema, ba tsholetsa dipalo tsa bone mo moyeng fa di ntse di bitswa. - Lebelela gore a barutwana ba kgona go ithulaganya ka bobone ka dipalo go tloga ka 1 go fitlha go 9. - Lebelela gore barutwana ba kgona go rulaganya dikarata tsotlhe tse di emelang palo 1, 2, le 3 go fitlha ka palo ya 9.	Barutwana mo phaposing ba newa dikarata tsekedimo tsa palo e e akaretsang 1 go fitlha ka 9 tse di lekaneng.	

Beke36	Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Tlhaloso ya dintlha**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa, bapisa le go rulaganya dipalo**	• **Bapisa gore ke didiriswa dife tse pedi tse di neetsweng di kgobokantswe tse:** - **dintsi go** - **dinnye go (mmalwa)** - **di lekanang le (di tshwana)** **Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** - Morutabana o neelana ka didiriswa tse di farologaneng jaaka matlhare, maje, dikhurumelo tsa dibotlolo. dikerayone, diboloko jalo jalo Letlelela barutwana go: - di tlhaola go ya ka ditlhopha sekao maje otlhe mmogo. - bala palo ya didiriswa mo setlhopheng sengwe le sengwe. - supa gore ke setlhopha sefe se “se ntsi go”, se se nnye go” le se se lekanang le”. Disete tse di akaretsang dipalo tse di fitlhang go 9: - Barutwana ba dula mo mmetsheng le go dira dintlhaga tse pedi ka wulu. - Morutabana o neela barutwana ka ditaelo gore ba beye dibadisi tse 2 mo sentlhageng se le sengwe le tse 4 mo sentlhageng se sengwe. - Botsa dipotso jaaka: “Ke sentlhaga sefe se se nang le tse “dintsi go”,nnye go” le didiriswa tse di tshwanang” ka palo sekao sentlhaga se se nang le dibadisi tse 2 se se nnye go se se nang le dibadisi tse 4.  - Letlelela barutwana go bopa palo e e ntsi go” , e e nnye go” le e e lekanang le disete tse fitlhang go 9.	Manathwana a mabedi a wulu a morutwana mongwe le mongwe Dibadisi tse 9 tsa morutwana mongwe le mongwe	Letsatsi 1

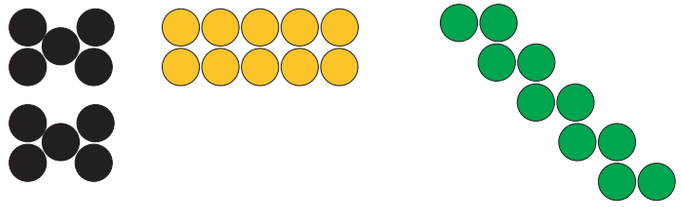
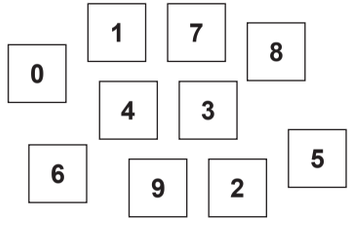
Beke36	Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Tlhaloso ya dintlha**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.13 **Tlhakanyo le Tloso**	• **Rarabolola ka motlotlo dipalo tsa go tlhakanya le go tlosa tse di akaretsang dipalo go tloga ka 1 go fitlha go 9** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha go 9. Balela kwa pele le kwa morago go fitlha go 9. Gatelela go bala ka bobedi o dirisa dipalo tsa diraeme. Gatelela **palokemotatelano**: Morutabana o paka didiriswa tse 6 mo moleng. A supa sediriswa sengwe le sengwe a ntse a bala sa ntlha,sa bobedi, sa boraro, sa bone, sabotlhano.sa borataro. **Gatelela kgopolo ka ga "bontsi" le bonnye"** Opa diatla gantsi…….EMA. Opa diatla ga nnye. Morutabana o opa diatla go fitlha go 9. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye.	Pina ya dipalo le diraeme	Letsatsi 1
	Metshameko ya go dirisa mmele - Morutabana o biletsa morutwana a le mongwe kwa pele. - Morutabana o baya palo e e farologaneng ya dibaga (go fitlha go 9) mo seatleng sa morutwana mongwe le mongwe sekao 4 mo seatleng se sengwe le 5 mo seatleng se sengwe. - Morutabana o rulaganya barutwana mo ditlhopheng tsa boronngwe. - Barutwana ba dula fa fatshe. - Morutwana o kopa barutwana ba ba 2 go ema ka dinao. - Morutabana o botsa gore "ke barutwana ba le kae ba ba dutseng fa fatshe?"	Dibaga kgotsa Dibadisi	

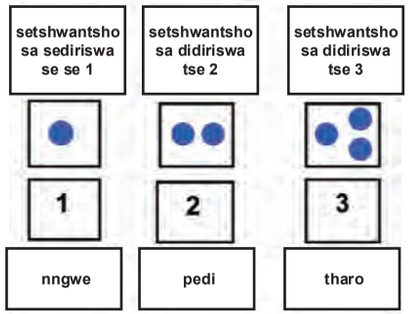
Beke36	Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Tlhaloso ya dintlha**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.13 **Tlhakanyo le tloso**	**Tiriso ya didiriswa ya tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** - Barutwana ba dula mo mmetsheng. - Morutwana mongwe le mongwe o newa dibaga tse 9 di beiwe mo teng ga kopi ya polasitiki. - Tsaya dibaga tse 6 go tswa mo koping, o di beye mo piring. Tsaya dibaga tse dingwe tse 3 mme o oketse tse di mo piring. Go na le dibaga di le kae mo koping? 6 le 2→8. - Tsaya dibaga tse 4 go tswa mo piring , o di beye mo koping ya polasitiki. Tsaya tse dingwe tse 5, o di tlhakanye le dibaga tse di mo koping ya polasitiki. Go na le dibaga tse kae mo koping? 9 o tlosa 4, gape tlosa 5→0. - Tlosa dibaga tse 4 go tswa mo kopi o di tsenye mo piring. Go setse tse kae mo piring? 9 o tlosa 4 □5. - Tlosa dibaga tse 5 go tswa mo koping o di tsenye mo piring. Go setse tse kae mo piring? 5 o tlosa 5 □0. **Tiriso ya dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekanotlhakorepedi (2-D)** Kgaoganya barutwana ka ditlhopha. Naya setlhopha sengwe le sengwe sete ya dikarata tsekedimo tsa ditshwantsho - Bala ditshwantsho tse 6 mo dikarateng tsekedimo. Fa o oketsa ka karata tsekedimo ya ditshwantsho tse 2 mo go yone, o tla bo o na le di le kae? 6 le 2→8. - Bala didiriswa tse 8 mo karateng ya setshwantsho. Fa o khurumetsa ditshwantsho tse 3, o bona tse kae? 8 o tlosa 3→5. - Paka palo e e tshwanang ya dibadisi.	Loga maano fa o sena dikopi le dipiring. Dikarata tsekedimo tse di mmalwa tsa ditshwantsho	
2.1 **Dipaterone tsa tekano**	• **Kopolola paterone ya modumo** **Metshameko ya go dirisa mmele** - Morutabana o kgaoganya barutwana ka ditlhopha tse tharo. Sebeletsa le go bontsha setlhopha sengwe le sengwe gore modumo wa sejanaga o a o emetsweng ke ofe. - Setlhopha sengwe le sengwe se dira modumo o se o neetsweng jaaka morutabana a ba laetsa, sekao: - Woosh, brrrm, zonk / Woosh, brrrm, zonk.	Ditshwantsho tsa dijanaga tse di farologaneng kgotsa dimatshini	Letsatsi 1

Beke36	Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Tlhaloso ya dintlha**	**Dithusathuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
5.1 **Kgobokanya le go tlhaola didiriswa**	• **Gatelela kgopolo ka ga dipalo tsa tshedimosetso** **Tiriso ya diriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** A re tshameke motshameko: Tlhopha le go kgobokanya mmala wa motshameko wa seloko wa beke e e latelang sekao. - Palo e e tshwanetseng ya rarabololwa ke go tlhomamisa gore ke mmala wa seloko sa go tshameka o tla dirisiwang beke e e latelang. **Kgobokanya tshedimosetso le go e tlhaola** - Dirisa didiriswa tota go dira kerafo jaaka diboloko, tlhaltlhaganyo ya dikhube, Lego le diboloko tsa Duplo tse di emetsweng ke mmala wa tege o o ipaakanyeditseng go o dirisa sekao botala jwa loapi, serolwana le mmala o motala. - Morutwana mongwe le mongwe o tlhopha boloko e le nngwe e e emelang mmala wa seloko o a o itlhophetseng wa beke.	Botala jwa loapi,serolwana le mmala o o tala lego- le diboloko tse di tlhatlhagantsweng (go dirisiwa mofuta o le mongwe)	Letsatsi 1
5.2 **Dira sethalo sa didiriswa tse di tlhaotsweng**	**Thala kerafo** - Diboloko di tlhatlhagantswe go ya ka mmala mo posetareng.		
5.3 **Buisana le go bega ka didiriswa tse di kgobokantsweng di tlhaotswe.**	**Bala le go ranola tafole** - Go ya kgetho ya barutwana mmala wa seloko wa motshameko wa beke e tla nna o o serolwana  		

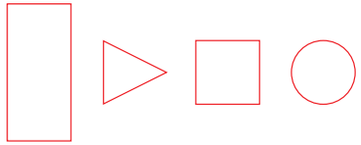
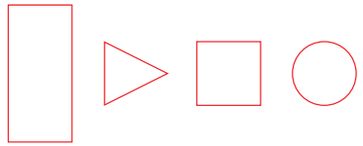
Beke 37 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Itsise bokao jwa palo ya 0 (lefela)** Motlotlo: Bala didiriswa letsatsi le letsatsi go fitlha go 10 o simolola ka lefela. Balela kwa pele le kwa morago go fitlha go 10 o simolola ka lefela. Gatelela go bala ka bobedi o dirisa dipalo tsa diraeme Gatelela palokemo tatelano: Morutabana o paka didiriswa tse 6 mo moleng. Supa sediriswa sengwe le sengwe fa o ntse o bala sa ntlha,sa bobedi, sa boraro, sa bone.sa botlhano,sa borataro. Gatelela kgopolo ka ga “bontsi” le mmalwa” Opa diatla gantsi…….EMA. Opa diatla mmalwanyana.Morutabana o opa diatla go fitlha go 10. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye. Morutabana o supa gore lefela le raya gore ga go na “sepe” le gore go bala go simolola go 1 **Metshameko ya go dirisa mmele** - Morutabana o supetsa barutwana paloina ya lefela. - Letlelela barutwana go supa gore ke karolo efe ya mmele e o kgonang go bopa lefela ka yone. o Melomo ya barutwana o Menwana ya barutwana  **Tiriso ya didiriswa tsa dikgonngwa tsa tekatekanyotlhakoretharo (3-D)** - Morutabana o baya padisi e le nngwe mo seatleng se sengwe, le sepe mo seatleng se sengwe. - O bula seatla se sengwe sa gagwe, a bontsha barutwana padisi e le nngwe, o bula seatla se sengwe sa gagwe a supetsa barutwana gore ga go na sepe. - Tirwana e e kgona go dirwa o dirisa barutwana ka bobone. **Tiriso ya didiriswa tsa dipopego kgotsa ditshwantsho tsa didikgonngwa tsa tekanotlhakorepedi (2-D)** - Morutabana o bontsha barutwana dikarata tsekedimo tse di se nang ditshwantsho le letshwaopalo 0.	Pina ya dipalo le diraeme Dibadisi ☐ 0	Letsatsi 1

Beke 37 Kitsiso	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Itsise bokao jwa palo 10** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha go 10. Balela kwa pele le kwa morago go fitlha go10. Bala o ipoeletse 0-10 **Gatelela go bala letsatsi le letsatsi ka bobedi o dirisa dipalo tsa diraeme** **Gatelela go bala palokemo tatelano:** Morutabana o paka didiriswa tse 6 mo moleng.Supa sediriswa sengwe le sengwe o ntse o bala sa ntlha,sa bobedi, sa boraro, sa bone, sa botlhano,sa borataro Gatelela kgopolo ka ga "bontsi" le bonnye" Opa diatla gantsi…….EMA. Opa diatla ga nnye. Morutabana o opa diatla go fitlha go 10. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye.	Pina ya dipalo le diraeme	Letsatsi 1 Tlhopha ditirwana tse di mmalwa
	Metshameko ya go dirisa mmele Letlelela barutwana go : - Go aga palo ya 10 ka bobedi ba dirisa mebele ya bone (barutwana ba le 4) - Bala go fitlha ka 10 o ntse o tsamaya ka morethetho wa moropa. - Tsholetsa menwana e le 10. - Thala palo 10 mo mmung/mo fatshe le go tsamaya mo go yona. - Tlola ga le 10. - Tsenya dipalo tse di segolotsweng mo khatebotong mo teng ga kgetsana e e "phopholediwang". - Tshola sete ya dikarata tsekedimo ka ditshwantsho tse di emelang palo sekao dibolo tse pedi mo karateng e e kwadilweng 2. Morutwana o phopholetsa dipalo mo kgetsaneng le go e bapisa le dikarata.	Segolola dipalo mo khatebotong Karata tsekedimo e e tonna ya letshwaopalo.	

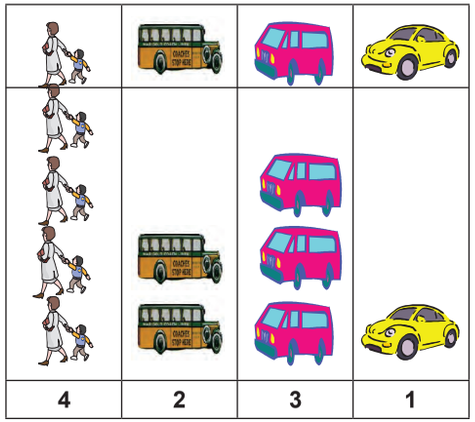
Beke 37 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	**Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoritharo (3-D)** Letlelela barutwana go: - Ntsha dipalo tsa bone tsa mogala ba dirisa dikarata tse ditonna tsa letshwaopalo. Ba lemose gore lefela le emetse eng mo palong ya le 10. - Godisa temogo ka ga tshomarelo ya palo ka go letlelela barutwana go paka dibadisi tse tlhano kgotsa go paka didiriswa ka ditsela tse di farologaneng sekao.  - Fa o bala, palo ya didiriswa ga e amiwe ke bogolo jwa tsone kgotsa maemo kampo fa e le ya mofuta o le mongwe. Sekao: - Rulaganya ditalama tse di 10, dipensele tse di 10, dihula hupu tse di 10, barutwana ba le 10 jalo jalo. - Di bale ka thulaganyo e e farologaneng sekao di bale di phatlhaladitswe, di bapile, mo moleng kgotsa di tlhatlhagantswe.	Dikarata tsekedimo tse di kwadilweng dipalo tsa barutwana tsa mogala 	

Beke 37 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1. **Dipaterone tsa jeometeri**	**Tiriso ya didiriswa tsa dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekanotlhakorepedi (2-D)** Letlelela barutwana go latela ditaelo tsa morutwana: - Baya didiriswa ka ditlhopha tse di akaretsang dipalo 1 go fitlha go 10 le go balela didiriswa kwa godimo. Morutabana o kgaoganya barutwana ka ditlhopha tse 5. Letlelela barutwana: - Rulaganya le go golaganya dikarata tsa ditshwantsho, karata tsekedimo tsa lerontho, letshwaopalo le leinapalo mo tatelanong e e nepagetseng go fitlha go palo ya 10 sekao:  jalo jalo. - Paka palo ya didiriswa mo godimo ga lerontho lengwe le lengwe mo karateng	Didiriswa mo phaposing Sete ya dikarata tsekedimo tsa ditshwantsho go fitlha ka palo 10 0 Dibadisi	

Beke 37 **Kitsiso**	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1 **Dipaterone tsa tekano**	• **Tshameka motshameko wa paterone- "Hop scotch"** Tsenyeletso ya ikatiso ya mmele ya serutwa sa dikgono tsa botshelo **Metshameko ya go dirisa mmele** - Tsamaya mo phaposing. O latela letshwao kgotsa fa mmino o didimala, morutabana o bitsa leina la popego. Barutwana ba bopa popego ka menwana ya bona. Ba ka nna ba bopa ditlhopha,dipopego ka mebele ya bone. - Thala paterone e e fa tlase mo fatshe kgotsa mo ferenteng gore barutwana ba tsamaye ka tsela e e rileng.  Buisanang ka ga paterone sekao : - Botsa dipotso jaaka: - "Ke popego efe e e latelang ka fa morago ga khutlonne-tsepa ya ntlha?" - "Ke popego e feng e tlang pele ga sediko sa ntlha? Barutwana ba latela paterone ka tsela e e latelang: - Morutabana are: "Tlotlo, tlola pele ga Tumelo" ,le Jabu ,o ka tlola morago ga ga Kabelo" - Tlolela ka dikgato tse pedi mo khutlonne-tsepeng. - Tlola ka kgato ya molema mo khutlotharong. - Tlola ka kgato ya moja mo khutlonneng. - Tlola ka dikgato tsoopedi mo sedikong le go sokolola mmele wa gago o ntse o le mo sedikong. - Feleletsa paterone.	Sekao sa paterone e e neetsweng fa fatshe	Letsatsi 1

Beke 37 Kitsiso	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1 **Dipaterone tsa tekano**	**Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** - Morutwana mongwe le mongwe o newa dipopego tse di latelang:  Morutabana o bopa paterone ka dipopego tsa gagwe Letlelela barutwana go: - Kopolola paterone ya morutabana ba dirisa dipopego tse di kwa godimo. - Ba aga paterone tsa bona ka dipopego tse di neetsweng.	Morutwana mongwe le mongwe o newa dipopego tse di latelang: 	
3.1 **Maemo, kitsiso le dipono**	**Latela dintlha go tsamaela kgotsa go ipaya boalong jo bo kgethegileng** • **Godisa kgopolo ka ga dikaelo ka go diragatsa ditaelo tse di akaretsang molema le moja** **Metshameko ya go dirisa mmele** Letlelela barutwana go latela ditaelo tsa morutabana: - Lebelela godimo / tlase/kwa godimo. - Inama/inamela kwa tlase. - Tsholetsa leoto la molema/tsholetsa leoto la moja - Gagaba o potologe tafole. - Tsamaela kwa pele / kwa morago. - Tsenya letsogo mo teng / kwa ntle. - Ema mo letlhakoreng la moja la setilo / ema mo letlhakoreng la molema la setilo. - Ema fa pele ga setilo sa gago / fa morago ga setilo sa gago. - Ema fa gare ga ditulo tse pedi. - Lebelela kwa mojeng / kwa molemeng. - Sokologa ka leoto la gago la molema. Sokologa kwa leoto la gago la moja.	Ditaelo go tswa go morutabana. Mareo: Godimo / tlase Mo teng / kwa ntle kwa godimo / kwa tlase kwa pele / kwa morago Mo pele ga / mo morago ga Mo godimo / ka fa tlase Mo letlhakoreng lengwe / mo letlhakoreng le lengwe Go bapa le Molema / moja Fa gare	Letsatsi 1

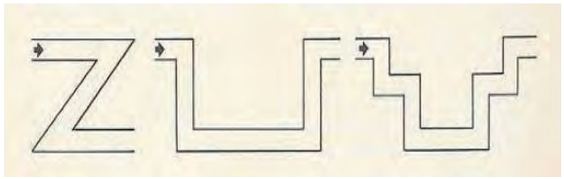
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	**Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** Letlelela barutwana go dira tse di latelang mo patikwalelong: - Thala didiko le go tswelela o tsamaya o potologa gangwe le gape  - Thala mela e e tlhamaletseng go tswa mo molemeng go ya kwa mojeng.  - Thala mela go tswa kwa godimo go ya kwa tlase.  - Morutabana o thala marontho a mabedi, barutwana ba thala mola go gokaganya marontho. 	Patikwalelo	

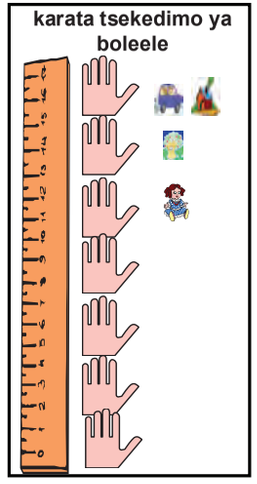
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Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse di atlenegisitsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
5.1 **Kgobokanya le go tlhaola didiriswa** **5.2** **Bapisa Tshwantshisa didiriswa tse di tlhaotsweng di bo di kgobokanngwa** **5.3** **Buisana le go bega ka ga didiriswa tse di tlhaotsweng di kgobokantswe**	• **Kgobokanya le go tlhaola didiriswa go ya ka diponagalo tse di neetsweng** **Gatelela kgopolo ka ga dipalo tsa tshedimosetso** **Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** - Morutabana o buisana le go batlisisa gore morutwana mongwe le mongwe o tla jang sekolong. - O bopa kerafo ya ditshwantsho e e emelang barutwana ba ba tsamayang ka dinao, ba ba tlang ka thekesi, ba ba tlang ka sejanaga sa motsadi le ba ba tlang ka bese sekao:  4 2 3 1 - Sekaseka dipholo ka go dirisa dipotso	Ditshwantsho tsa ditekesi tsa dimakasine, bese, sejanaga le morutwana yo o tsamayang ka dinao. Fa o sena ditshwantsho o ka loga leano le go thala tsa gago.	Letsatsi 1

Beke 38	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyetswang**
1.1 **Bala didiriswa**	• **Gatelela kitso e o e ungulweng(boneng) ka beke ya 37 e e akaretsang dipalo 0 le 10** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha go 10. Balela kwa pele le kwa morago go fitlha go 10. Bala o ipoeletsa 0-10 Gatelela go bala bobedi o dirisa dipalo tsa diraeme **Gatelela palokemo tatelano**: Morutabana o paka didiriswa tse 6 mo moleng. O supa sediriswa fa o ntse o bala sa ntlha, sa bobedi, sa boraro, sa bone sa botlhano,sa borataro jalo jalo.		Letsatsi 1 kgotsa tlhopa ditirwana tse di rileng
	Gatelela kgopolo ka ga "bontsi" le bonnye" Opa diatla gantsi…….EMA. Opa diatla ga ga nnye. Morutabana o opa diatla go fitlha go 9. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye.	Diraeme tsa dipalo le dipina	
	Metshameko ya go dirisa mmele - Morutabana o thala didiko tse 11 (0 to 10) mo patlelong ya go tshameka kgotsa dirisa hula hupu. Kwala 0 le 10 mo teng ga sediko sengwe le sengwe. Morutabana o bitsa palo, morutwana o latlhela kgetsana ya dinawa ya gagwe mo teng ga sediko e e biditsweng. - Gopotsa barutwana gore lefela ga le emele sepe. Fa morutwana a latlhela kgetsana ya dinawa mo teng ga sediko sa lefela, o tla tswa mo motshamekong. - Morutwana o latlhela kgetsana ya gagwe ya dinawa mo sedikong se se tsamaelanang le lerontho le kgotsa karata ya setshwantsho e e bontshiwang ke morutabana. - Morutabana o latlhela kgetsana ya gagwe ya dinawa mo sedikong se se bontshang karata ya letshwaopalo le le bontshiwang ke morutabana. - Tswelela ka tsela e e tshwanang go dirisa karata ya leinapalo - Lemoga le go supa letshwaopalo le leinapalo	Dikgetsana tsa dinawa tse 10 Didiko tse di tshwantshitsweng mo fatshe kgotsa dirisa hula hupu	

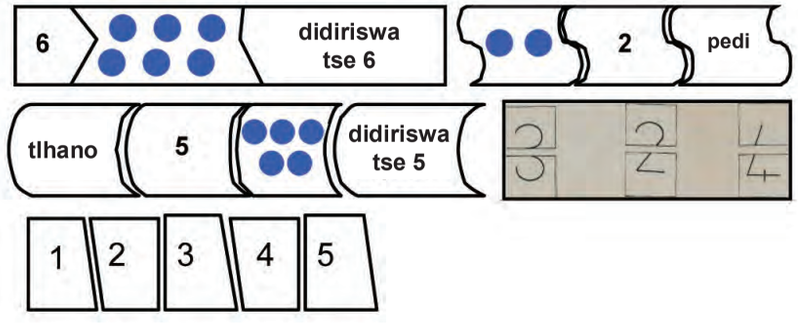
Beke 38	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyetswang**
1.3 **Matshwaopalo le dipaloina**	**Tiriso ya dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekanotlhakorepedi (2-D)** **A re tshameke motshameko:** - Morutabana o kwala leinapalo mo letlhakoreng le le lengwe la karata le go kwala letshwapalo mo letlhakoreng le lengwe la karata e e akaretsang dipalo. - 0 go fitlha go 10 (dirisa disete tse mmalwa). - Barutwana ba "buisa" leinapalo le go fopholetsa letshwaopalo. - Ba pitikolola karata go ipaakanya.	Sete ya dikarata tsa tsekedimo tsa dipalo tse di akaretsang 0-10 dikarata tsekedimo tse di akaretsang dipalo 1-10 ka leinapalo mo letlhakoreng le lengwe le letshwaopalo mo letlhakoreng le lengwe.(dira disete tse di mmalwa gore morutwana mongwe le mongwe a nne le karata tsekedimo ya gagwe).	
1.4 **Tlhalosa, bapisa le go rulaganya dipalo**	• **Itsise dipalokemotatelano ya ntlha,ya bobedi,ya boraro, go fitlha ka ya borataro----ya bofelo** Kakanyo e siame fa e agwa mo sebakeng sa nako e telele ka go dirisa le go tshwaya maemo a tlholego jaaka a diragala mo phaposing sekao: go salana morago mo moleng go ya kwa ntle "Ntobi ke wa ntlha, Tlotlo ke wa bobedi……." **Metshameko ya go dirisa mmele** - Letlelela barutwana go taboga lobelo. Ke mang fitlhileng wa ntlha, ke mang yo o fitlhileng wa bobedi le yo o fitlhileng wa bofelo? **Tshameka motshameko-"Ke ofe ?"** - Kopa barutwana ba le batlhano go dula mo moleng mo ditulong tse tlhano. - Morutabana a re "ke gopotse mongwe wa barutwana ba. Morutwana o apere jeresi e e khibidu" - O simolola ka morutwana yo o dutseng fa pele, o tsamaya go bapa le mola, o ama morutwana mongwe le mongwe, a botsa:"a ke morutwana wa ntlha, wa bobedi,wa boraro……. Letlelela barutwana ba le 5 go ema mo mapalamong a a kwantle.Morutabana o baya karata ya letshwaopalo le le siameng ka fa tlase ga mapalamo a morutwana mongwe le mongwe. Mpontshe gore ke morutwana ofe yo o emeng mo: - Mapalamong a ntlha. - Mapalamong a bobedi. - Mapalamong a boraro jalo jalo. Morutwana yo o dutseng mo mapalamong a ntlha o tsholetsa karata ya letshwaopalo fa tsala nngwe mo phaposing e sena go neela ka karabo.Tswelela go fitlha ka 6.	Ditilo tse 5 Sete ya dikarata tsa matshwao a dipalo tsedi akaretsang dipalo 1 go fitlha 10. Leka leano fa go sena dikgato tsa mapalamo.	Letsatsi 1

Beke 38	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyetswang**
1.7. **Tlhakanyo le tloso**	• **Rarabolola ka motlotlo dipalofoko tsa(dipalokgang) tse di akaretsang dipalo ya 10 .** **Motlotlo :** Bala didiriswa letsatsi le letsatsi go fitlha go10. Balela kwa pele le kwa morago go fitlha go 10. **Gatelela kgopolo ka ga "bontsi" le mmalwa"** Opa diatla gantsi…….EMA. Opa diatla mmalwanyana.Morutabana o opa diatla go fitlha go 10. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye. **Dikai:** 1. Go na le basetsana ba le 5 mo phaposing. Basetsana ba bangwe ba le 5 ba a tsena. Ke basetsana ba le kae jaanong? 5 le 5 → 10. 2. Bala dibadisi tse 7.Bala gabedi kwa pele.bala gangwe kwa pele.Ke bokae tsotlhe? 7 le 2 le 1 → 10. 3. Go ne go na le dibadisi di le 10 mo tafoleng. Go setse tse 4.Go šutisitswe tse kae? 10 o tlosa 6 → 4. 4. O na le dimabole tse 10. Tlosa tse 3.O setse ka tse kae? 10 o tlosa 3 → 7 5. O dirile dikuku tse 10. O rekisitse tse 2.O setse ka tse kae?	Dibadisi	Letsatsi 1
3.1 **Maemo, kitsiso le dipono**	• **O latela dikaelo go tsamaya kgotsa go ipaya fa gare ga phaposi** **Metshameko ya go dirisa mmele** - Morutabana o kopa morutwana go ema kwa morago ga phaposi (mo kgoro e bulwang teng e bontsha bokwapele jwa phaposi) - Morutabana o kopa barutwana go ema ka fa letlhakoreng la phaposi/kgotsa mo letlhakoreng le lengwe. - Morutabana o kopa morutwana go ema fa pele ga phaposi. **Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** **Modumo o na le bokao.** Barutwana ba reetsa**:** - Tshipi / tleloko. - Phala. - Seletswa sa mmino. - Itanya diboloko tse pedi tsa logong.	tshipi Phala seletswa sa mmino se sengwe le se sengwe diboloko tsa logong	Letsatsi 1

Beke 38	Nako e e tshitshintsweng ya go ruta Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyetswang**
3.1 **Maemo, kitsiso le dipono**	Barutwana ba tswala matlho le go supa modumo wa tshipi/tleloko kgotsa phala kgotsa seletswa sa mmino. - Barutwana ba tswala matlho le go supa gore modumo o tswa kae.Ba ka simolola ka go latlhela kgetsana ya dinawa kwa ntlheng e modumo o tswang teng morago ba buisane gore modumo o kae sekao kwa pele ga phaposi, gaufi le sekhutlwana sa dibuka. - Morutabana o letlelela barutwana ba le 4 go ikaega ka lobota mo phaposing. Barutwana ba le 4 ba eme mo matlhakoreng a le mane a phaposi. Yo mongwe le yo mongwe ka seletswa se se farologaneng (tshipi/tleloko phala, seletswa sa mmino le diboloko tse pedi). - Morutabana o supa barutwana ka bongwe ka bongwe go dira modumo ka seletswa sa bone sekao tshipi fela - Barutwana botlhe ba supa gore medumo e tswa kae ka go supa ntlha e modumo o tswang ko go one, sekao tshipi. - Go gatelela kgopolo ka ga molema le moja, letlelela barutwana go: babedi ba ba emeng fa pele le kwa morago ga phaposi kwa ditlhopheng tse dingwe. - Boeletsa tirwana e e tshwanang o tsepameseditse mo medumong e e tswang mo letlhakoreng la molema le la moja mo phaposing. - Barutwana ka motlotlo ba re “molema” fa ba utlwa modumo go tswa mo letlhakoreng la molema le fa modumo o tswa mo letlhakoreng la moja.		
	Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D) - Barutwana ba dirisa diboloko sekao ba sutisa boloko e e gaufi le setilo. o Ya kwa morago/le kwa pele. o Ema mo letlhakoreng la moja la setilo/ema mo letlhakoreng la molema la setilo. - Ema fa gare ga ditilo tse pedi. - Tlhaola ditlhako tsa molema le tsa moja	boloko le setilo Para ya ditlhako	
	Dirisa dikgonngwa tsa tekatekanyopopegopedi (2-D) kgotsa ditshwantsho Letlelela barutwana go feleletsa letlhare la tirwana o dirisa kerayone go thala mola fa gare ga mela sekao. 	Letlhare la tirwana le kerayone	

Beke 38	**Nako e e tshitshintsweng ya go ruta** **Tirwana e le nngwe ya phaposi e e baakanyeditsweng e kaelwa ke morutabana (mosako) tsa ± 30 metsostso ka letsatsi(± 5 ditirwana tsa dipalo ka beke**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusa-thuto tse di atlenegesitsweng**	**Boleele jwa nako jo bo lekanyetswang**
4.2 **Boleele**	**Bapiso didiriswa tsa dikgong le go di rulaganya o dirisa tlotlofok e e maleba go tlhalosa boleele.** • **Lekanya boleele jwa barutwana ka theipi ya go lekanya.** **Metshameko ya go dirisa mmele** - Lebelela mo kgwedi-tharong ya ntlha le ya boraro ka nako e boleele jwa barutwana bo lekanyetswang go dirisiwa diatla mo karateng ya boleele. - Lekanyetsa boleele jwa barutwana gape. - Morutabana o baya theipi go bapa le ditshwantsho tsa diatla mo karateng ya boleele. - Boleele jwa barutwana bo a lekanyediwa gape. - Lemosa barutwana gore re dirisa sediriswa sa tekanyetso se se tlhomameng, se ke se mme a se dirisang fa a roka mosese. - Jaanonong ga ba boleele jwa diatla tse 10 mme ba boleele jwa disentimetara tse 10. - Barutwana ba ka bapisa boleele jwa bone gore ke mang yo mo leele/ yo mokhutshwane mo phaposing? **Dirisa dikgonngwa tsa tekanotlhakoretharo (3-D)** - Morutwana o robala fa fatshe, ba bangwe ba baya diboloko (bogolo jo bo tshwanang) mo moleng go bapa le mmele wa morutwana yo o robetseng fa fatshe. - Morutabana o neela ka ditaelo: “Bopa sengwe se se telele/khutshwane go feta tsala ya gago”	**Karata tsekedimo ya boleele** Theipi ya go lekanya **karata tsekedimo ya boleele** 	

Beke 39	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutwana (mosako) of ± 30metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse atlenegisetsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Bala didiriswa**	• **Gatelela bokao jwa palo 10** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha ka 10. Balela kwa pele le kwa morago go fitlha ka 10. Bala o ipoeletsa 0-10 **Gatelela go bala palokemotatelano**: Morutabana o paka didiriswa mo moleng. Sa ntlha,sa bobedi,sa boraro,sa bone,sa botlhano,sa borataro	Dipina tsa dipalo le diraeme	Letsatsi 1
	Gatelela kgopolo ka ga "bontsi" le mmalwa" Opa diatla gantsi…….EMA. Opa diatla mmalwanyana.Morutabana o opa diatla go fitlha ka 10. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye.		
	Metshameko ya go dirisa mmele Letlelela barutwana : - Motlotlo raeme ya dipalo o dirisa menwana. - Bala gore morutabana o betsa tafole ga kae o kopise se a se dirang. - Opa diatla tsa gago ga šome. - Bala letsatsi morethetho nako e barutwana ba tsamayang ka yone mo mapalamong, ba tlola tlola mo teng le kwa ntle ga dihula hupu. - Itaya maoto fa fatshe go ya ka morethetho o o tlwaelegileng. - Barutwana ba le lešome ba ema ka sekotlole mongwe le mongwe ka kgetsana ya dinawa fa gare ga sediko.A morutwana mongwe le mongwe a latlhele kgetsana ya dinawa mo sekotleleng le go tswelela go fitlha ka 10. Barutwana ba bale fa ba ntse ba latlhela. Boeletsa tirwana go fitlhela morutwana mongwe le mongwe a bona tshono..	Kgetsana ya dinawa le sejana	

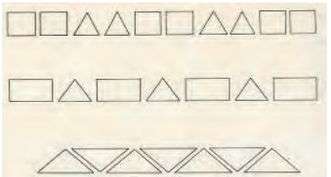
Beke 39	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutwana (mosako) of ± 30metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse atlenegisetsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.1 **Matshwao le mainapalo a 10**	Dirisa dikgonngwa tsa tekatekanyopopegopedi (2-D) kgotsa ditshwantsho Kgaoganya barutwana ka ditlhopha tse dinnye. Morutabana o neela ka phasele ya dipalo. Barutwana ba lemoga le go batlisisa mabaka otlhe a a kgonagalang. Barutwana ba latlhela taese go tlhotlhomisa gore ke phasele efe e o e agang. 	Dira phasele ya dipalo tse di akaretsang dipalo tse di simololang ka 1 go fitlha ka 10	

Beke 39	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutwana (mosako) of ± 30metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse atlenegisetsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.13 **Tlhakanyo le tloso**	• **Gatelela go tlhakanya le go tlosa ka dikarabo tse di fitlhang ka 10** **Motlotlo:** Bala didiriswa letsatsi le letsatsi go fitlha ka 10. Balela kwa pele le kwa morago go fitlha ka 10. **Gatelela go bala letsatsi bopedi ba dirisa diraeme tsa dipalo** **Gatelela kgopolo ka ga "bontsi" le mmalwa"** Opa diatla gantsi…….EMA. Opa diatla mmalwanyana.Morutabana o opa diatla go fitlha ka. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye. **Metshameko ya go dirisa mmele** - Morutabana biletsa barutwana ba le ba 5 kwa pele le go tswelela a ntse a oketsa ka morutwana a le mongwe go fitlha ka 10. - Barutwana ba balela kwa godimo. 5 le 1→6. (Motlotlo o re: tlhano le nngwe e go fa thataro) 6 le 1→7. 7 le 1→8. 8 le 1 →9. 9 le 1→10. - Morutabana o romela barutwana go balela kwa morago mme barutwana ba balela kwa morago 10 tlosa1→9 9 tlosa 1→8 10 tlosa 2→8	Dipina tsa dipalo le diraeme	Letsatsi 1
	Dirisa dikgonngwa tsa tekanotlhakoretharo (3-D) Barutwana ba dula mo mmetsheng. Morutwana mongwe le mongwe o newa Dibadisi tse 10 le sekhurumelo sa polasitiki. Letlelela barutwana go latela ditaelo: - Paka dibadisi tse 4 mo godimo ga sekhurumelo.Oketsa ka tse 4. Go na le tse kae tsotlhe? 6 le 4→10 - Paka dibadisi tse 10.Tlosa tse 5.O setse ka tse kae?	Morutwana mongwe le mongwe o newa didiriswa tse 10 Sekhurumelo sa polasitiki sekao setshelo sa bebetsididi	

Beke 39	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutwana (mosako) of ± 30metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse atlenegisetsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.13 **Tlhakanyo le Tloso**	Dirisa dikgonngwa tsa tekatekanyopopegotlhakorepedi (2-D) kgotsa ditshwantsho Bala didiriswa tse 8 mo karateng ya setshwantsho. Fa o oketsa ka karata ya tsekedimo ya setshwantsho e e nang le didiriswa tse 2 mo go yone, o tla nna le tse kae jaanong? 8 le 2 →10. paka palo e e tshwanang ya dibadisi. Bala didiriswa tse 10 mo karateng ya setshwantsho. Fa o šuba didiriswa tse 3, o bona tse kae? 10 tlosa 3→ 7. Paka dipalo dipalo e e tshwanang ya dibadisi.	karata tsekedimo ya setshwantsho e e akaretsang dipalo 1go fitlha ka 10 Dibadisi	
1.4 **Tlhalosa , bapisa, le go rulaganya dipalo**	• **Bapisa gore ke didiriswa dife tse di kgobokantsweng tse di:** - **Ntsi go** - **nnye go (mmalwa)** - **e lekana le (di a tshwana)** **Motlotlo:** Bala didiriswa tsa letsatsi le letsatsi go fitlha ka 10. Balela kwa pele le kwa morago go fitlha ka 10 o dirisa diraeme le dipina. **Gatelela go bala letsatsi bopedi o dirisa diraeme** Gatelela kgopolo ka ga “bontsi” le bonnye” Opa diatla gantsi…….EMA. Opa diatla ga nnye. Morutabana o opa diatla go fitlha ka 10. Botsa gore ke palo efe ya go opa diatla e e ntsi/nnye.. **Metshameko ya go dirisa mmele** - Morutabana o baya barutwana ba le 6 mmogo le barutwana ba le 4 mo hula hupung e nngwe. - Morutabana o a botsa:”A go na le barutwana ba le bantsi, ba bannye kgotsa ba ba lekanang le dipalo ya barutwana mo hula hupung e nngwe le nngwe. - ” Barutwana ba tlhaola gore ke hula hupu efe e e nang le dipalo e e ntsi go feta” le nnye go” kgotsa e e lekanang le” ya barutwana.	Dihula-hupu tse 2	Letsatsi 1

Beke 39	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutwana (mosako) of ± 30metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse atlenegisetsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
1.4 **Tlhalosa , bapisa, le go rulaganya dipalo**	**Dirisa dikgonngwa tsa tekanotlhakoretharo (3-D)** - Baya dibadisi tse 10, dibadisi tse 6 le dibadisi tse 4 mo tafoleng. - Kwa ntle ga go fopholetsa palo ya dibadisi/diboloko mo tafoleng. - Morutabana o botsa gore: “A go na le dibadisi di le dintsi go feta tse 7?” “A di a tshwana,kgotsa di dintsi go feta, kgotsa di dinnye go, di lekane kgotsa ga di a lekana?” - Morutabana a re: “Lekola karabo ya gago ka go bala dibadisi tsa gago” “Phopholetso ya gago e gaufi go le go kae?”	Dibadisi	
	Dirisa dikadikgonngwa tsa tekatekanyopopegotlhakorepedi (2-D) kgotsa ditshwantsho - Morutabana o supetsa dikarata tsekedimo tse pedi tse di nang le marontho a a farologaneng le ditshwantsho mo go tsone. - Letlelela barutwana go bapisa dikarata tsekedimo tsa ditshwantsho le marontho mo go tsone le go supa kgopolo ya gore ke tsefe tse dintsi go feta, le tse “di nnye go” le tse di “lekanang le”	Dikarata tse pedi ka dipalo tsa marontho tse di farologaneng kgotsa ditshwantsho mo go tsone .	

Beke 39	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutwana (mosako) of ± 30metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse atlenegisetsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	**Tlhalosa didiriswa tse pedi kgotsa go feta tsa tekanyotlhakore 3 D tse di nyalana kgotsa di tshwana.** • **Gatelela ka ga molema le moja** **Metshameko ya go dirisa mmele** - Morutabana o baya dikgato tsa maoto, tsa molema le tsa leoto la moja gotlhe mo phaposing.  - Barutwana ba gagaba ka letsogo le lengwe le lengole le le lengwe ka nako e le nngwe. - Tsamaya mo godimo ga tsone sekao fa ba le mo tseleng go ya kwa sejaneng sa go tlhapa.  Morutabana o bofa lenathwana la wulu e e khibidu mo seatleng sa morutwana yo mongwe le mongwe. Morutabana o neela ditaelo. - Tsholetsa leoto la gago la molema - Baya lenao la gago la moja mo setilong. - Ama lengole la gago ka sekgono sa letsogo la moja. - Goga tsebe ya gago ya molema ka letsogo la gago la moja. - Baya letsogo la gago la moja mo legetleng la molema le go baya letsogo la gago la molema mo legetleng la moja ka nako e le nngwe. - Itlamparele (o kgabaganya molagare).	metlhala ya dikgato tsa maoto e tshwailwe gore a ke “molema” kgotsa ke “moja” lenathwana la wulu e e khibidu	Letsatsi 1

Beke 39	**Nako e e tshitshintsweng ya go ruta :** **Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutwana (mosako) of ± 30metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)**		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse atlenegisetsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
3.1 **Maemo, kitsiso le dipono**	**Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** - Morutabana o baya meteme/dithini tse 7 mo tafoleng. - Letlelela barutwana gore ke palo efe e e leng mo molemeng wa ga 3, ke palo efe e e leng mo mojeng wa ga 6, ke dipalo efe e e fa gare ga 3 le 6. - Ke palo efe e e leng ya ntlha, ke efe e e leng ya bofelo  - Morutabana o baya dimpopisi tse 3/dijanaga tse 3 ka diaparo tse di iponatshang kgotsa mebala mo tafoloeng. - O botsa dipotso jaaka: o Ke mpopisi ofe/sejanaga sefe se se leng mo molemeng? o Ke mpopisi ofe/sejanaga sefe se se leng mo mojeng? o Ke mpopisi ofe/sejanaga sefe se se mo magareng? Ke mpopisi ofe/sejanaga sefe se se leng sa ntlha/sa bofelo? **Tiriso ya dipopego kgotsa ditshwantsho tsa dikadikgonngwa tsa tekanotlhakorepedi (2-D)** - Ka nako ya botsweretshi jwa pono barutwana ba penta ba dirisa letsogo la molema le la moja . - Segolola le go kgomaretsa mo letlhareng o supa leoto la molema le moja.	/meteme/dithini tse di tshwailweng ka dipalo. Dimpopisi kgotsa kara tse tharo	
2.1 **Dipaterone tsa Jeometeri**	• **Bopa paterone ya gagwe** **Tiriso ya didiriswa tsa dikgonngwa tsa tekanyotlhakoretharo (3-D)** - Barutwana ba simolola go kopolola dipaterone tse di neetsweng. - La bofelo barutwana ba bopa dipaterone tsa bone le go di tlhalosa . 	dipopego le dikarata tsa dipaterone.	letsatsi 1

Beke 39	Nako e e tshitshintsweng ya go ruta : Tirwana e le nngwe ya phaposi e e baakantsweng e kaelwa ke morutwana (mosako) of ± 30metsotso ka letsatsi (± 5 ditirwana tsa dipalo ka beke)		
Setlhogo	**Dintlha tsa tlhaloso**	**Dithusathuto tse atlenegisetsweng**	**Boleele jwa nako jo bo lekanyeditsweng**
2.1 **Dipaterone tsa Jeometeri**	**Tiro ya boroto ya diphekese:** Letlelela barutwana go dirisa letsogo la moja pele mme morago ba dirise letsogo la molema, morago ba a dirise mmogo go baya diphekese mo borothong ya diphekese. - Morutabana o bolelela barutwana gore ba beye diphekese kae sekao : o Mo moleng yo o kwa godimo o Mo moleng yo o kwa tlase. o Mo letlhakoreng la molema. o Mo letlhakoreng la moja. o Mo magareng. Letlelela barutwana: - dira dipopego mo borotong ya diphekese ka diphekese tse di mebala. - Morutabana o tlhama paterone e e botlhofo ka diphekese mo borotong ya diphekese ya gagwe, barutwana ba kopolola paterone ya gagwe mo borotong ya gagwe ya diphekese.	Diboroto tsa diphekese le diphekese Dipaterone tsa barutwana ba tshwanetseng go di kopolola	

Beke 40	Dirisa beke ya bo 40 go lebelela makoa a tlhaloganyo le go tlhaola tlhaola dikgoreletsi tsa thuto.	
Kgaolo ya diteng	**Setlhogo**	**Dintlha tsa kelo tsa go tlhatlhoba**
Tiriso ya dipalopalo	**1.1** **Bala didiriswa**	Fopholetsa le go bala o ipoeletsa go fitlha go 10 (dipina tsa dipalo le diraeme go godisa palo kgopolo)
		Balela kwa pele le kwa morago (0-10)
		Bala bobedi (dipina tsa dipalo le diraeme)
		Tlhaloganya dikgopolo ka ga “bontsi” le “bonnye”(opa diatla)
		O tlhaloganya gore ke palo e kae ya go opa diatla e e ntsi/e nnye, e ntsi thata/ le e nnye thata
		Tlhaola ditshwantshopalo le dikarata tsa marontho go tloga go 1-10
		O itse matshwaopalo 8, 9, 10 le 0
		Go lemoga mainapalo robedi,robonngwe le lešome le lefela
		Feleletsa palo tatelano go tloga go 1-10
	1.4 **Tlhalosa ,bapisa le go rulaganya dipalo**	Lemoga le go tlhaola dipalo tse di tsamaelanang le kgopolo e le nngwe sekao:dingwaga,rejisetara
		Farologanya fa gare ga bontsi,bonnye,lekana go fitlha ka palo 10
		Tlhaloganya palokemo tatelano ya ntlha,ya bobedi,ya boraro,ya bone,ya botlhano,ya borataro
	1.6 **Malepa a go rarabolola dipalo**	Dirisa didiriswa tse di kgonngwang Tlhalosa kgopolo ya gago ka mafoko ka go dirisa botaki kgotsa didiriswa tse di kgonngwang
	1.7 le 1.13 **Tlhakanyo le tloso**	Rarabolola ka go Motlotlo dipalo tsa go tlhakanya le go tlosa tse di akaretsang dipalo tse di fitlhang go 10
Dipaterone le tiriso	**2.1** **Tekanyetso ya dipaterone**	Kopolola,atolosa le go bopa dipaterone ka go reetsa
		Tlhaloganya motshameko wa “go tlola ka leoto le le losi”
Boalo le popego	**3.1** **Maemo, kitsiso le dipono**	Itse dikgopolo go bapa,mo gare le fa gare ,molemeng le mojeng.
		Tlhaloganya dikgopolo: kwa pele le kwa morago,godimo le tlase,kwa godimo le kwa tlase,molemeng le mojeng.
	3.2 **Didiriswa tsa tekanyotlhakoretharo 3-D le** **3.3** **Dipopego tsa tekanotlhakorepedi 2-D**	Kgono ya go aga dikarolo tsa di phasele di ka nna 24 Lemoga le go tlhaola sediko,khutlotharo,khutlonne le khutlonnetsepa
	3.4. **Jeometeri**	Lemoga mela ya tekanyetso mo didirisweng .
Tekanyetso	**4.2** **Boleele**	Tlhaloganya gore didiriswa le tsone di a lekanyetswa ka go dirisa teipe ya go lekanyetsa
Tshwaro ya tshedimosetso.	**5.1** **Phutha le go tlhaola dilo.**	Kgono ya go kgobokanya,tlhaola ,thala,buisa le supa (sekaseka) didiriswa go ya ka dineelo
	5.2 **Kemedi ya tlhaolo ya dilo.**	
	5.3 **Tlhalosa le pegelo mo dilong tse di tlhaotsweng**	

KAROLO 4: TLHATLHOBO

4.1 MATSENO

Tlhatlhobo ke dikgato tse di rulaganeng tse di tswelelang go supa, go kokoanya le go ranolola tshedimosetso ka ga bokgoni jwa barutwana o dirisa mekgwa e e fapaapaaneng tsa tlhatlhobo. E akaretsa dikgato tse nne:

- go tlhamale go kgobokanya/kokoanya bopaki jwa phitlhelelo,
- go tlhatlhoba bopaki jo;
- go rekota diphitlhelelo le
- ka go dirisa tshedimosetso go tlhaloganya mme o kgone go thusa kgolo yabarutwana gore ba kgone go tokafatsa dikgato tsa bona tsa go ithuta le go ruta

Tlhatlhobo e tshwanetse go nna e e sa tlhomameng (tlhatlhobo ya go tlhomamisa se se tshwanetseng go rutwa) le e e tlhomameng(tlhatlhobo ya go ithuta). Moditlhatlhobong tsotlhe dipholodi tshwanetswe go fiwa/newa barutwana, go tsholetsa maitemogelo a go ithuta.

Mo Kgatong ya Motheo , malepa a magolo a tlhatlhobo e e sa tlhomamang le e e tlhomameng ke go lebelela ga morutabana, dipuisano tsa molomo, ditiragatso le go rekota ka go kwala.Tlhatlhobo mo Mophatong wa R e tshwanetse go nna ya molomo le ya tiragatso.

4.2 TLHATLHOBO E E SA TLHOMAMANG KGOTSA TLHATLHOBO YA LETSATSI LE LETSATSI

Tlhatlhobo ya go tlhomamisa se se tshwanetseng go rutwa ke kgato ya go tswelela go kokoanya tshedimosetso ka phitlhelelo ya morutwana. Se se bidiwa tlhatlhobo e e sa tlhomamamang. Ke tekolo ya letsatsi le letsatsi ya tswelelopele ya morutwana.Se se dirwa ka go lebelela, go buisana,go tiragatsa,tlhotlheletsano/go dirisana go go sa tlhomamang mo phaposing jalo lejalo. Tlhatlhobo e seka ya tsewa jaaka selo se se kgaoganeng le ditirwana tsa go ithuta tse di dirwang mo phaposing. Tlhatlhobo e e sa tlhomamang e thusa morutabana go lekola tswelelopele ya morutwana le go dira ditaelo tsa go tsaya ditshwetso letsatsi le letsatsi. Tlhatlhobo e e sa tlhomamang e dirisiwa go:

- neela barutwana dipholo.
- Itsese go rulaganya ga go ruta.

Ka nako tse dingwe morutabana a ka boloka lenanenetefatso kgotsa lenaneo la tekolo jaaka tsela ya go rekota tswelelopele ya barutwana. Ka nako tse dingwe morutwana kgotsa morutabana a ka nna a tshwaya tiro ya morutwana. Le gale, tlhatlhobo e e sa tlhomamang ga e nne karolo ya rekoto ya morutwana ya tlhatlhobo e e tlhomameng. Dipholo tsa ditiro tsa tlhatlhobo e e sa tlhomamang ga di direkotiwe go tsweletsa morutwana mo mophatong o o latelang le go mo abela ya setifikeiti.

4.3 TLHATLHOBO E E TLHOMAMENG

Ditiro tsotlhe tsa tlhatlhobo tse di akareditsweng mo lenaneong la tlhatlhobo e e tlhomameng ya ngwaga di tsewa jaaka Tlhatlhobo e e Tlhomameng.Ditiro tsa tlhatlhobo e e tlhomameng di ka tshwaiwa le go rekotiwa semmuso ke morutabana go dira gore morutwana a tswelele mo mophatong o o latelang le go mo abela/neela setifikeiti. Tlhatlhobo e e tlhomameng e neela morutabana tsela e e rulaganeng ya go tlhatlhoba tswelelopele ya barutwana mo mophatong,le mo serutweng se se rileng.

Morutabana a ka kgona bo lebelela barutwana ba le lesome ka nako e le nngwe, ka jalo tlhatlhobo e e tlhomameng e tla dirwa mo ditlhopeng tse dinnye ka dinako tse di tsepameng mme go tla tsaya malatsi a le mmalwa go tlhatlhoba barutwana botlhe mo phaposing. Didiriswa tsotlhe tse barutwana ba di dirisang ka gale di tshwanetse go nna teng ka nako tsotlhe (dibadisi,di tšhate tsa dipalo.)

Mefuta ya tlhatlhobo e e dirisitsweng e tshwanetse go lekanela dingwaga tsa barutwana le kgolo ya bona.Tlhatlhobo e e tlhomameng e tshwanetse go akaretsa dikgato tsotlhe tsa maemo a go tlhaloganya le bokgoni jwa barutwana. Tlhamo ya ditiro tse, e tshwanetse go akaretsa diteng tsa serutwa ka ditsela tse di farologaneng.

Mefuta e e farologaneng ya tlhatlhobo(go lebelela, go bua, go diragatsa le go kwala) di tshwanetse go dirisiwa go naya morutwana mongwe le mongwe tšhono ya go bontsha se a kgonang go se dira.Se ke ka ntlha ya gore go bonolo mo barutwaneng ba bangwe go bontsha se ba se itseng mo mefuteng mengwe ya tlhatlhobo. Sekao

- Barutwana ba ba nang le mathata a go bala ba dira sentle mo dipalong.
- Barutabana ba bangwe ba ka bo ba se maemong a a solofelwang a bokgoni jwa puo ya go ithuta le go rutwa .

Ditiro tsa tlhatlhobo tsa serutwa sa Dipalo di tlhoka go akaretsa ditiro tse di sa ikaegang ka puo ebile di sa ikaega mo go itseng go buisa go bontsha bokgoni jwa morutwana.

Ka jalo,go tshwanetse ga tlhokomelwa se se tlhatlhobiwang. Kitso le dikgono tse di rileng di tlhatlhobiwa sentle ka mefuta e e rileng ya tlhatlhobo. Mefuta e e farologaneng ya ditlhatlhobo e maleba go dikgono le dikakanyo tse di leng botlhokwa mo ditlhogong tse di farologaneng mo ditlhopeng tsa barutwana ba dingwaga tse di farologaneng. Go mosola go dirisa lenanenetefatso la go lebelela go tlhatlhoba barutwana mo mephatong e e kwa tlase. Dirubiriki di ka dirisiwa go thusa go tlhatlhoba bokgoni jwa barutwana jwa go dirisa dikgono tsa go rarabololamathata a dipalo.

4.4 LENANEO LA TLHATLHOBO E E TLHOMAMENG

Ditiro tsa tlhatlhobo tse di tlhomameng tsa serutwa sa Dipalo di akaretsa go feta setlhogo se le sengwe mo serutweng sa Dipalo.Ditirwana tsa tlhatlhobo mo ngwageng di tlhoka go akaretsa diteng tsa dirutwa le ditlhogo tsotlhe mme ga se sengwe le sengwe mo kharikhulamong se go tlhokagalang go ka tlhatlhobiwa ka tlhomamo kgotsa sa begiwa ka tlhomamo.Dipalo, Matshwao le Dikgolagano di dira diporesente di le 60 tsa serutwa sa Dipalo mo mephatong ya R. Se, se raya gore 60% ya tlhatlhobo e e tlhomameng mo kgwedi-tharong nngwe le nngwe mme le mo ngwageng e tshwanetse go tsepamesiwa mo dipalong, matshwao le dikgolagano.

Tiro nngwe le nngwe ya tlhatlhobo e e tlhomameng ga e a tshwanela go lebelelwa jaaka tiragalo kgotsa teko e e ike-metseng e le nosi. Dintlha tsa kelo tse dingwe di ka nna tsa tlhatlhobiwa ka nako e le nngwe mme fela ba bangwe ba ka tlhatlhobiwa ka dinako tse di farologaneng le tsa ba bangwe.Sekao, fa barutwana ba tlhatlhobiwa bokgoni jwa go tlola go bala , bokgoni jwa bona jwa go dira tse di latelang bo ka tlhatlhobiwa mo tirwaneng kgotsa mo ditiragalong :

- Feleletsa tatelano ya go bala
- Buisa le go kwala matshwao a dipalo
- Go bala

Le fa le go ntse jalo, fa tiro ya tlhatlhobo e akaretsa tharabololo ya mathata ka go kgobokanya kgotsa go aroganya, le go tlhatlhoba bokgoni jwa barutwana go lekanyetsa mothamo, go a kgonagala gore dintlha tse tsa Dipalo di tlhatlhobiwe ka dinako tse di farologaneng le ka mekgwa e e farologaneng.

4.5 GO REKOTA LE GO BEGA

Go rekota ke kgato e morutabana a e dirisang go kwala maemo a bokgoni jwa morutwana mo tirong ya ditlhatlhobo tse dirileng. E supa tswelelopele ya morutwana go ya mo phitlhelelong ya kitso jaaka e kailwe mo Pegelong ya Pholisi ya ya Kharikhulamo le Tlhatlhobo.Direkoto tsa go dira/bokgoni jwa barutwana di tshwanetse go neelana ka bopaki jwa tsweletso ya tlhaloganyo ya morutwana mo mophatong le go ipaakanyetsa go tswelela kgotsa go fetisediwa kwa mophatong o o latelang. Direkoto tsa bokgoni jwa morutwana di tshwanetse go dirisiwa go netefatsa tswelelopele e e dirilweng ke morutabana le morutwana mo dikgatong tsa go ruta le go ithuta.

Go bega ke tsela ya go tlhaeletsana le barutwana, batsadi, dikolo le batsayakarolo bangwe mo thutong ya barutwana ka ga bokgoni/go dira ga barutwana. Bokgoni jwa morutwana bo ka begiwa ka tsela tse di farologaneng.Tse

di akaretsa dikaratapego, dikopano tsa batsadi, malatsi a ketelo kwa sekolong,dipuisano magareng ga motsadi-le-morutabana, go letsa mogala, go kwala makwalo, go dirisa lekwalo dikgang la sekolo jalo jalo. Barutabana mo mephatong yotlhe ba dirisa diporesente go bega bokgoni jwa go dira ga morutwana mo serutweng. Maemo a phitlhelelo a a farologaneng a barutwana le nyalano ya dikgamu tsa diporesente di bontshitswe mo lenaneong le le latelang.

DIKHOUTU LE DIPERESENTE TSA GO REKOTA LE GO BEGA

Khoutu ya seemo	Tlhalosoya bokgoni	Peresente
7	Phitlhelelo ka dinaledi	80 – 100
6	Phitlhelelo ka matsetseleko	70 – 79
5	Phitlhelelo e e tletseng	60 – 69
4	Phitlhelelo e e itumedisang	50 – 59
3	Phitlhelelo ka tekano	40 – 49
2	Phitlhelelo e e potlana	30 – 39
1	Ga a fitlhelela	0 – 29

4.6 KAKARETSO

Lokwalo lo, le tshwanetse go buisiwa mmogo le:

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 SEKAO SA LENANE NETEFATSO TLHATLHOBO E E TLHOMAMENG YA MOPHATO WA R

Ka fa tlase go neetswe sekao sa manaane a a lekolang tlhatlhobo ya mophato wa R.Maikaelelo ke go thusa barutabana go rulaganya le go diragatsa tlhatlhobo e e tlhomameng e e diragadiwang ka tsela e e tswelelang.

MOPHATO R Lenaanenetefatso la tlhatlhobo la kgweditharo 1				
Diteng tsa serutwa	**Diteng**	**Dintlha tsa kelo**	**√ kgotsa ×**	**Ditsh-waelo**
Dipalo, Matshwao Le dikgolagano	Go bala	Fopholetsa le go bala ka go boeletsa go fitlha ka 5 (Dipina tsa dipalo le merumo tse di akareditsweng go godisa kgopolo ya palo)		
	Temogo ya palo	Lemoga dipalo mo tirisong e e tlwaelegileng-sekao dingwaga, rejisetara		
		Tlhaloganya palokemotatelano (sekao ka nako ya go ya ntlwana boithusetso)		
	Palokgopolo	Tlhaloganya tirisano ya bongwe ka bongwe(tšhate ya mothusi ka nako ya dilapolosi/dijo)		
	Supa le go tlhalosa dipalotlalo	Supa ditshwantsho tsa dipalo le karata ya khutlo e e akaretsang palo nngwe		
		Itse letshwaopalo 1		
		Lemoga leinapalo nngwe		
	Rarabolola dipalo	Dirisa dithusathuto tse di kgonngwang Tlhalosa kakanyo ya gago ka mafoko le ka ditshwantsho kgotsa didiriswa tse di kgonngwang		

MOPHATO R Lenaanenetefatso la tlhatlhobo la kgweditharo 1				
Diteng tsa serutwa	**Diteng**	**Dintlha tsa kelo**	**√ kgotsa ×**	**Ditsh-waelo**
Dipaterone, tiriso le Alejebera	Kopolola,oketsa le go aga dipaterone tsa gago	Supa dipaterone mo tikologong		
		Kopolola, oketsa le go aga dipaterone tsa gago		
Boalo le popego (Jeometeri)	Lemoga, supa le go neela didiriswa tsa tlhakoretharo (3-D) maina	Lemoga, supa o neele maina a dibolo		
		Lemoga,supa o neele maina a mabokoso		
	Lemoga, supa le go neela dipopego le ditshwantsho tsa tlhakorepedi (2-D) maina	Lemoga, supa le go neela matshwao a gago,le a balekane ba gago le maina a phaposi		
		Bonny aga malea/phasele ya dikarolwana di le 6		
		Bontsha bokgoni ba go farologanya magareng ga didiriswa tse di kwa pele le kwa morago		
	Dipopego tsa jeometeri	Go supa le go lemoga didiko/disekele		
		Go supa le go lemoga khutlotharo		
		Go supa le go lemoga sekwera		
	Tlhalosa, tlhaola le go tshwantsha didiriswa tsa tlhakoretharo (3-D) go ya ka:	Tshwantshanya bogolo, bonnye,bogolo thata le bonnye thata jwa di diriswa tse dikgobokantsweng,di neetswe di le pedi		
		Tlhaola didiriswa ka bogolo: Bogolo le bonnye		
		Mmala –mebalatheo (bohibidu,serolwana,botala jwa legodimo)		
		Popego-sediko/sekele,khutlotharo le sekwera		
		Didiriswa tse di pitokologang		
		Didiriswa tse di relelang		
	Lemoga mola wa tekatekano mo:	Lemoga mola wa tekatekano mo go wena		
	Kgolagano ya boalo: Maemo a didiriswa di le pedi kgotsa go feta a a nang le kgolagano le morutwana	Itse bopele kgotsa bomorago		
		Itse bogodimo,bokwatlase		
		Itse bogare le bokwantle		
		Itse bogodimo le bokwatlase		
	Dikaelo	Tlhaloganya dikakanyo: bokwapele, bomorago		
Tekanyo	Nako	Dirisa mafoko jaaka motshegare, bosigo, lesedi le lefifi, moso le ka letlatlaana, bosigo go tlhalosa nako		
		Thulaganyo ya ditiragalo tse di tlhagelelang gangwe le gape mo botshelong jwa gago jwa ka metlha(Thulaganyo/ porogerama ya letsatsi le letsatsi)		
		Bontsha maitemogelo a maina a matsatsi a beke, a ditlha le a bosa		
		Itse letsatsi la gago la botsalo		
	Boleele	Farologanya magareng ga boleele, boleele go feta,boleeele go fetisisa,bokhutshwane go feta le bokhutshwane go fetisisa(tšhate ya boleele		
Go dira ka tshedimosetso	Kgobokanya, tlhaola, thala bala le go tlhagisa tshedimosetso	Go kgona go kgobokanya, go tlhaola,go thala,go bala,go tlhagisa /sekaseka didiriswa go ya ka go bala ga gago.		

TEKANYO YA BOFELO

MOPHATO R Lenaanenetefatso la tlhatlhobo la kgweditharo 2				
Diteng tsa serutwa	**Diteng**	**Dintlha tsa kelo**	**√ kgotsa ×**	**Ditsh-waelo**
Dipalo, Matshwao le Dikgolagano	Go bala	Fopholetsa le go bala ka go boeletsa go fitlha ka 7 (Dipina tsa dipalo le merumo tse di akareditsweng go godisa kgopolo ya palo)		
		Bala go tloga kwa morago go ya kwa pele (1-4)		
		Tlhaloganya dikakanyo “bontsi,bonnye(go opa diatla)		
	Temogo ya palo	Lemoga dipalo mo tirisong e e tlwaelegileng-sekao Palo ya ntlo, aterese le rejisetara		
		Tlhaloganya palokemotatelano (sekao ka nako ya go ya ntlwana boithusetso)		
	Supa le go tlhalosa dipalotlalo	Supa ditshwantsho tsa dipalo le karata ya khutlo		
		Itse letshwaopalo 1,2,3,4		
		Lemoga leinapalo pedi,tharo le nne		
	Palo kgopolo	Tlhaloganya tirisano ya bongwe ka bongwe(tšhate ya mothusi ka nako ya dilapolosi/dijo)		
		Farologanya magareng ga bontsi ,bonnye le go lekana go fitlhelela go 4		
		Lemoga tšhelete a tshipi a a farologaneng a Aforika Borwa		
	Rarabolola dipalo	Dirisa dithusathuto tse di kgonngwang Tlhalosa monagano wa gago ka mafoko le ka ditshwantsho kgotsa didiriswa tse di kgonngwang		
		Ranolola dipalo tsa go tlhakanya le go ntsha ka go bua go fitlha go 4		
		Kopolola, oketsa le go aga dipaterone tsa gago(didiriswa, dipopego le tšhelete a tshipi)		
Dipaterone le ditiro	Kopolola, atolosa le go tlhama dipaterone tsa gago	Kopolola, atolosa le go tlhama dipaterone tsa bona (didiriswa, dipopego le papetlana tsa tšhelete)		
Boalo le popego (jeometeri)	Lemoga, supa le go neela dipopego le ditshwantsho tsa tlhakorepedi (2-D) maina	Bonnye aga malea/phasele ya dikarolwana di le 12		
		Bontsha bokgoni ba go farologanya magareng ga didiriswa tse di kwa pele le kwa morago (tlhatlhoba gape)		
	Dipopego tsa jeometeri	Go supa le go lemoga dikhutlotharo		
		Tlhaloganya le go aga dikhutlotharo tse di sa fetogeng (boloka dipopego/se fetole dipopego)		
	Tlhalosa, tlhaola le go tshwantsha didiriswa tsa tlhakoretharo(3-D) go ya ka	Tshwantshanya boleele le bokhutshwane jwa di diriswa tse dikgobokantsweng,di neetswe di le pedi		
		Tlhaola didiriswa ka bogolo,boleele le bokhutshwane		
		Mmala –mebalatheo (bohibidu,serolwana, botala jwa legodimo,botala jwa tlhaga)		
		Dipopego		
	Aga di diriswa tsa matlhokoretharo o dirisa dilo tse di kgonngwang	Tlhotlhomisa ka go dirisa diboloko tsa go aga		
	Lemoga mola wa tekatekano mo:	Lemoga mola wa tekatekano mo wena le mo tikologong.		
		Bokgoni jwa go kgabaganya molagare		
	Kgolagano ya boalo	Tlhaloganya maemo a didiriswa di le pedi kgotsa go feta a a nang le kgolagano le morutwana - godimo, tlase ga		

MOPHATO R Lenaanenetefatso la tlhatlhobo la kgweditharo 2				
Diteng tsa serutwa	**Diteng**	**Dintlha tsa kelo**	**√ kgotsa ×**	**Ditsh-waelo**
Tekanyo	Nako	Tlhaloganya a maina a matsatsi,a ditlha le tšhate ya bosa (dipina le diraeme-Tlhatlhoba gape)		
		Itse letsatsi la gago la botsalo		
	Boleele	Fopholetsa le go lekanyetsa boleele jwa didiriswa tse di farologaneng		
Go dira ka tshedimosetso	Kgobokanya, tlhaola , thala bala le go tlhagisa tshedimosetso	Go kgona go kgobokanya, go tlhaola,go thala,go bala,go tlhagisa /sekaseka didiriswa go ya ka go bala ga gago.		

TEKANYO YA BOFELO

MOPHATO R Lenaanenetefatso la tlhatlhobo la kgweditharo 3				
Diteng tsa serutwa	**Diteng**	**Dintlha tsa kelo**	**√ kgotsa ×**	**Ditsh-waelo**
Dipalo, Matshwao le dikgolagano	Go bala	Fopholetsa le go bala ka go boeletsa go fitlha ka 7 (Dipina tsa dipalo le merumo tse di akareditsweng go godisa kgopolo ya palo)		
		Bala go tloga kwa morago go ya kwa pele (1-7)		
		Itse gore bonnye/bontsi go opilwe diatla ga kae.		
	Temogo ya palo	Lemoga dipalo mo tirisong e e tlwaelegileng-sekao dingwaga, rejisetara(tlhatlhoba gape)		
	Supa le go tlhalosa dipalotlalo	Supa ditshwantsho tsa dipalo le karata ya khutlo go fitlha ka 7		
		Itse letshwaopalo 5,6,7		
		Lemoga leinapalo tlhano,thataro le supa		
	Palo kgopolo	Farologanya magareng ga bontsi, bonnye le go lekana go fitlhelela ka 7		
		Lemoga mmala mmogo le mefuta e e farologaneng ya diphologolo mo dintlheng tsa Aforika Borwa		
	Rarabolola dipalo	Dirisa dithusathuto tse di kgonngwang. Tlhalosa monagano wa gago ka mafoko le ka ditshwantsho kgotsa didiriswa tse di kgonngwang		
		Ranolola dipalo tsa go tlhakanya le go ntsha ka go bua go fitlha go 7		
Dipaterone le ditiriso	Kopolola,oketsa le go aga dipaterone tsa gago	Kopolola,oketsa le go aga dipaterone tsa gago o dirisa ditshwantsho		

MOPHATO R Lenaanenetefatso la tlhatlhobo la kgweditharo 3				
Diteng tsa serutwa	**Diteng**	**Dintlha tsa kelo**	**√ kgotsa ×**	**Ditsh-waelo**
Boalo le popego (Jeometeri)	Lemoga, supa le go neela dipopego le ditshwantsho tsa tlhakorepedi (2-D) maina	Bonnye aga malea/phasele ya dikarolwana di le 18		
	Dipopego tsa jeometeri	Go supa le go lemoga le go neela dikhutlonne maina		
		Tlhaloganya le go aga dikhutlotharo tse di sa fetogeng tse o di ithutileng go fitlha ka mo nakong e (boloka dipopego/se fetole dipopego)		
	Aga di diriswa tsa matlhokoretharo (3-D) o dirisa dilo tse di kgonngwang	Aga go tswa go mo sekao sa kago e e setseng e neilwe		
		Kopolola moago go tswa mo o o tlhamilweng kgotsa karata ya setshwantho.		
	Kgolagano ya boalo:	Itse maemo a didiriswa di le pedi kgotsa go feta a a nang le kgolagano le morutwana		
		Kwa pele ga, morago ga, godimo ga, tlase ga, kwa tlase, kwa tlase ga, fa thoko ga, gare ga molemeng, mojeng. Diragatsa ditaelo mo borotong ya diphekese		
	Dikaelo	Itse dikaelo go tswa mo tšhateng ya metswi		
Tekanyo	Boleele	Phopholetsa le go lekanyetsa boleele jwa didiriswa tse di farologaneng		
	Boima	Tlhaloganya dikakanyo “botlhofo,boima,botlhofo go feta,boima go feta,botlhofo go fetisisa le boima go fetisisa.		
	Mothamo/bolumu	Tlhalogana tiriso ya “lolea, tletse, ntsi go feta, nnye go feta”.		
Go dira ka tshedimosetso	Kgobokanya, tlhaola, thala bala le go tlhagisa tshedimosetso	Go kgona go kgobokanya, go tlhaola,go thala,go bala,go tlhagisa /sekaseka didiriswa go ya ka go bala ga gago.		

TEKANYO YA BOFELO

MOPHATO R Lenaanenetefatso la tlhatlhobo la kgweditharo 4				
Diteng tsa serutwa	**Diteng**	**Dintlha tsa kelo**	**√ kgotsa ×**	**Ditsh-waelo**
Dipalo, Matshwao le Dikgolagano	Go bala	Fopholetsa le go bala ka go boeletsa go fitlha ka 10 (Dipina tsa dipalo le merumo tse di akareditsweng go godisa kgopolo ya palo)		
		Bala go tloga kwa morago go ya kwa pele (0-10)		
		Bala ka bopedi (2s). Dipina tsa dipalo le merumo		
		Tlhaloganya dikakanyo tsa bonnye/bontsi go opiwa diatla		
		Tlhaloganya gore bonnye/bontsi go opilwe diatla ga kae.		
	Temogo ya palo	Lemoga le go supa dipalo mo tirisong e e tlwaelegileng-sekao dingwaga, rejisetara		
	Supa le go tlhalosa dipalotlalo	Supa ditshwantsho tsa dipalo le karata ya khutlo go simolola ka 0-10		
		Itse letshwaopalo 8,9,10 le 0		
		Lemoga leinapalo robedi,robonngwe, lesome le lefela		
		Feleletsa tatelano ya dipalo tse di bonolo go tloga go palo 1-10		
	Palo kgopolo	Farologanya magareng ga bontsi ,bonnye le go lekana go fitlhelela ka 10		
		Tlhaloganya tatelano ya dipalo-bonngwe,bobedi boraro bone, botlhano le borataro		
	Rarabolola dipalo	Dirisa dithusathuto tse di kgonngwang Tlhalosa monagano wa gago ka mafoko le ka ditshwantsho kgotsa didiriswa tse di kgonngwang		
		Ranolola dipalo tsa go tlhakanya le go ntsha ka go bua go fitlha ka 10		
Dipaterone le ditiriso	Kopolola,oketsa le go aga dipaterone tsa gago	Kopolola,oketsa le go aga dipaterone tsa gago tsa kutlo		
		Tlhaloganya motshameko wa sekotšhe		
Boalo le popego (jeometeri)	Lemoga, supa le go neela dipopego le ditshwantsho tsa tlhakorepedi (2-D) maina	Bonnye aga malea/phasele ya dikarolwana di le 24		
	Dipopego tsajeometeri	Go supa le go lemoga sekele,khutlotharo,sekwera le khutlonnetsepa		
	Lemoga mola wa tekatekano	Lemoga mola wa tekatekano mo didirisweng		
	Kgolagano ya boalo:	Itse kakanyo gaufi le, magareng, moja le molema		
		Bokgoni ba go dira ditiro tse di tsa go tswelela tsa boto ya ditlhomelwa		
	Dikaelo	Tlhaloganya dikakanyo: bo kwa pele le bomorago, godimo le tlase moja le molema		
Tekanyo	Boleele	Tlhaloganya gore didiriswa le tsona di lekanyetswa ka go dirisa teipi ya go lekanyetsa		
Go dira ka tshedimosetso	Kgobokanya, tlhaola, thala bala le go tlhagisa tshedimosetso	Go kgona go kgobokanya, go tlhaola,go thala,go bala,go tlhagisa /sekaseka didiriswa go ya ka go bala ga gago.		

TEKANYO YA BOFELO