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EDUCATION
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GROWING GAUTENG TOGETHER

Tshivenda/English

Mbekanyamushumo ya u Khwinifhadza Mbalo dza Gireidi ya T Grade R Mathematics Improvement Programme



Wekishopo ya 10 • Workshop 10
Bugu ya Mushumo ya Vhashelamulenzhe • Participant's Workbook

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The **Schools Development Unit** (SDU) at the **University of Cape Town** (UCT) is the mathematics technical partner to the Grade R Mathematics and Language Improvement Project. The SDU is a unit within UCT's School of Education that focuses on teachers' professional development in Mathematics, Science, Literacy/Language and Life Skills from Grade R to Grade 12. The SDU offers teacher qualifications and approved UCT short courses, school-based work, materials development and research to support teaching and learning in all South African contexts.

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Overview

Purpose

This is the tenth of twelve Grade R Mathematics Improvement Programme workshops, which form part of the Gauteng Department of Education (GDE) Grade R Mathematics and Language Improvement Project.

The purpose of this workshop is to continue assisting teachers to implement the Maths Programme in their classrooms. Participants will have the opportunity to reflect on their implementation of the Maths Programme and discuss their planning, teaching and assessment. They will also consider learner progress, and individual developmental and learning needs. Participants will reflect on appropriate assessment strategies for capturing learner progress. The workshop explores the content for Term 4 Weeks 1–3 and its classroom implementation.

References to the Grade R Mathematics Content Areas are taken from the *Curriculum and Assessment Policy Statement (CAPS): Grade R Mathematics (Final Draft)*, 2011, Department of Basic Education, South Africa.

Learning outcomes

- ◆ To reflect on the implementation of Term 3 Weeks 7–10
- ◆ To reflect on the use of the guiding principles of teaching maths in Grade R
- ◆ To deepen understanding of continuous learner observation in Grade R
- ◆ To reflect on informal forms of assessment in Grade R
- ◆ To reflect on challenges and find solutions to implementing the Maths Programme
- ◆ To map out the Maths Programme content to be taught in Term 4 Weeks 1–3

Workshop content

- | | |
|---|----------|
| ◆ Opening and reflection | (1 hour) |
| ◆ Session 1: Observation and assessment | (1 hour) |

TEA

- | | |
|--|----------|
| ◆ Session 2: The guiding principles of teaching maths in Grade R | (1 hour) |
| ◆ Session 3: Introducing numbers 10 and 0 | (1 hour) |

LUNCH

- | | |
|------------------------------------|--------------|
| ◆ Session 4: Planning for teaching | (1½ hours) |
| ◆ Closing activities | (30 minutes) |

Manweledzo

Ndivho

Iyi ndi wekishopo ya vhufumi kha dza fumimbili dza Mbekanyamushumo ya u Khwinifhadza Mbalo dza Gireidi ya T̄ ine ya vhumba tshipida tsha Muhasho wa Pfunzo wa Gauteng (GDE) Mbalo dza Gireidi ya T̄ na Thandela ya u Khwinisa Dzinyambo.

Ndivho ya wekishopo iyi ndi u thusa vhagudisi u thoma Mbekanyamushumo ya Mbalo ngomu kiłasirumuni dzavho. Vhashelamulenzhe vha ḫo vha na tshikhala tsha u amba nga zwe vha lavhelesa. Vha ḫo tandula uri milayo ya nyendedzi dza u funza mbalo kha Gireidi ya T̄ i fanela u thusa hani u pulana havho, u funza na u linga. Vha ḫo dovha hafhu vha sedza mvelaphanda ya vhagudi, na ḫhodea dza u guda na mveledziso dza mugudi nga ethe. Wekishopo i tandula magudiswa a Kotara ya 4 Vhege ya 1–3 na u thomiwa hao kiłasini.

U referentsiwa kha Sia ḫa Magudiswa ḫa Mbalo dza Gireidi ya T̄ zwo dzhiwa kha *Tshitatamennde tsha Pholisi tsha Kharikhuļamu na u Linga (TSHIPHOKHALI): Mbalo dza Gireidi ya T̄ (Mvetamveto ya u Fhedzisela)*, 2011, Muhasho wa Pfunzo ya Mutheo, Afrika Tshipembe.

Mvelelo dza u guda

- ◆ U humbula nga u thomiwa ha Kotara ya 3 Vhege ya 7–10
- ◆ U amba nga tshumiso ya milayo ya nyendedzi dza u funza mbalo kha Gireidi ya T̄
- ◆ U khwaṭhisidza u pfectesa u lavhelesa hu bvelaho phanda ha mugudi kha Gireidi ya T̄
- ◆ U amba nga ndila dzi si fomaļa dza u linga kha Gireidi ya T̄
- ◆ U amba nga dzikhaedu na u wana thandululo dza u thoma Mbekanyamushumo ya Mbalo
- ◆ U pulana magudiswa a Mbekanyamushumo ya Mbalo ane a ḫo funzwa kha Kotara ya 4 Vhege ya 1–3

Magudiswa a wekishopo

- ◆ Mvulatswinga na mihumbulo (Awara 1)
 - ◆ Dzulo ḫa 1: U lavhelesa na u linga (Awara 1)
- TIE
- ◆ Dzulo ḫa 2: Milayo ya nyendedzi dza u funza mbalo kha Gireidi ya T̄ (Awara 1)
 - ◆ Dzulo ḫa 3: U ḫivhadza nomboro 10 na 0 (Awara 1)
- TSHISWITULO
- ◆ Dzulo ḫa 4: U pulanelu u funza (Awara 1½)
 - ◆ Nyito dza u vala (Minetse ya 30)

Opening and reflection

1 hour

Reflection involves thinking and talking about your experiences and what you have learnt.

Reflection on implementation

Here is the *Take back to school task* from Workshop 9.



Take back to school task (Workshop 9)

1. Use *Activity Guide: Term 3* to plan and implement Term 3 Weeks 7–10 of the Maths Programme.
2. Make notes of what worked well, what did not work well and how you resolved any challenges during your implementation of Term 3 Weeks 7–10.
3. Write comments in the book that you use to keep track of each learner's progress (learner observation book). Use the '**Check that learners are able to**' observation list (eye box) during each of the teacher-guided activities to guide your observations and comments.
4. Bring your learner observation book and the notes you made when reflecting on each day's teaching to the next workshop.
5. Bring a copy of the Term 3: Exemplar Record of Continuous Assessments (from *Activity Guide: Term 3*) to the next workshop.



Activity 1

1. In your group, prepare a newspaper article on teaching and learning maths in Grade R. Use the Maths Programme and your classroom implementation of it as the basis for your article. Include the following:
 - ◆ why maths in Grade R is important
 - ◆ your successes and challenges with implementing the Maths Programme in Terms 1, 2 and 3
 - ◆ strategies you used to resolve challenges.

Mvulatswinga na mihumbulo

Awara 1

Mvulatswinga i katela u humbula na u amba nga tshenzhemo yavho na zwe vha guda.

U amba nga u thoma

Mushumo wa u ḥuwa nawo tshikoloni u bva kha Wekishopo ya 9 ngoyu.



Mushumo wa u ḥuwa nawo tshikoloni (Wekishopo ya 9)

1. Kha vha shumise *Nyendedzi ya Nyito: Kotara ya 3* u pulana na u thoma Kotara ya 3 Vhege ya 7–10 dza Mbekanyamushumo ya Mbalo
2. Kha vha ite notsi dza zwe zwa shuma zwavhuđi, zwe zwa si shume zwavhuđi na uri vho tandulula hani dzikhaedu dziňwe na dziňwe nga tshifhinga tsha u thoma havho Kotara ya 3 Vhege ya 7–10.
3. Kha vha ñwale mahumbulwa buguni ine vha i shumisa u itela u sedza mvelaphanda ya mugudi muñwe na muñwe (bugu ya u lavhelesa vhagudi). Kha vha shumise mutevhe wa u lavhelesa wa '**Kha vha ḥole uri vhagudi vha a kona u**' (kha iṭo tshibogisini) nga tshifhinga tsha nyito dzo rangwaho phanda nga mugudisi dziňwe na dziňwe u itela u endedza u lavhelesa havho na mahumbulwa.
4. Kha vha ḫe na bugu ya u lavhelesa vhagudi na notsi dze vha ita musi vha tshi khou amba nga u funza ha ḫuvha liňwe na liňwe kha wekishopo i tevhelaho.
5. Kha vha ḫe na khophi ya Kotara ya 3: Tsumbo ya Rekhodo ya u Linga hu yaho Phanda (u bva kha *Nyendedzi ya Nyito: Kotara ya 3*) kha wekishopo i tevhelaho.



Nyito ya 1

1. Tshigwadani tshavho, kha vha dzudzanye atikili ya gurannđa nga u funza na u guda mbalo kha Gireidi ya Ṭ. Kha vha shumise Mbekanyamushumo ya Mbalo na u thoma hayo kīlasirumuni yavho sa mutheo wa atikili yavho. Kha vha katele zwi tevhelaho:
 - ◆ ndi ngani mbalo dici dza ndeme kha Gireidi ya Ṭ
 - ◆ u bvelela havho na dzikhaedu dza u thoma Mbekanyamushumo ya Mbalo kha Kotara ya 1, 2 na 3
 - ◆ maano e vha shumisa u tandulula dzikhaedu.

2. Write the newspaper article on flipchart paper.
3. You will present your article to the other groups and answer any of their questions.

2. Kha vha ñwale atikili ya gurann̄da kha bammbiri ḥa filipitshati.
3. Vha ḥo kumedza atikili yavho kha zwiñwe zwigwada vha fhindula mbudziso dziñwe na dziñwe dzavho.

Session 1: Observation and assessment

1 hour

Observation in Grade R

Observation is an important part of the process of teaching, learning and assessment. In Grade R, the main assessment method is observation. Teachers gather information about learners during whole class activities, small group activities and free play (inside and outside the classroom). During the teacher-guided activities, your interaction with individual learners provides valuable information about their progress. By recording the learners' progress in understanding specific maths concepts in your notebook on an ongoing basis, you build up a complete picture of each learner.

Objective observation

For observation to be effective, teachers need to understand and know what to focus on.

In the next activity, you will practise your observation skills. *This is an individual activity. It is very important that you do not talk to anyone about your observations.*



Activity 2

Look at the photograph of two Grade R learners playing with blocks. Write down what you observe when you look at the photograph.



Dzulo ḥa 1: U lavhelesa na u linga

Awara 1

U lavhelesa kha Gireidi ya Ṭ

U lavhelesa ndi tshipiḍa tsha ndeme tsha maitele a u funza, u guda na u linga. Kha Gireidi ya Ṭ, ngona ya ndeme ya u linga ndi u lavhelesa. Vhagudisi vha kuvhanganya mafhungo nga vhagudi nga tshifhinga tsha nyito dza kiłasi yoṭhe, nyito dza tshigwada tshiṭuku na u tamba nga u funa (ngomu na nn̄da ha kiłasi). Nga tshifhinga tsha nyito dzo rangwaho phanda nga mugudisi, u shumisana havho na vhagudi nga vhoṭhe zwi ḥetshedza mafhungo a ndeme nga mvelaphanda yavho. Nga u rekhoda mvelaphanda ya vhagudi vha tshi pfesesa ḫivhaipfi tiwa ya mbalo kha bugu ya notsi yavho tshifhinga tshoṭhe, vha fhaṭa tshifanyiso tsho fhelelaho tsha mugudi muñwe na muñwe.

U lavhelesa hu sa ḥaluli

U itela uri u lavhelesa hu shume zwavhuḍi, vhagudisi vha fanela u pfesesa na u ḫivha zwine vha fanela u sedzesha khazwo.

Kha nyito i tevhelaho, vha ḫo ita ndowendowe ya zwikili zwavho zwa u lavhelesa. *Iyi ndi nyito ya muthu nga eṭhe. Ndi zwa ndeme uri vha sa ambe na muthu nga zwe vha lavhelesa.*



Nyito ya 2

Kha vha lavhelese tshifanyiso tsha vhagudi vhavhili vha Gireidi ya Ṭ vha tshi khou tamba nga zwibuloko. Kha vha ḥwale zwine vha khou vhaba musi vha tshi sedza tshifanyiso.



My observations:



Video 1

1. Watch the video of a group of learners playing the game, Bingo. Write down your observations of the learners.

2. Which of your observations are facts and which are assumptions? Go through your list and write an 'F' or 'A' next to each statement.

When we write what we **think** a learner can or cannot do, or what a learner is feeling, we are making assumptions. The only way to know what a learner is thinking or feeling, is to ask them to tell you.

Objective observation involves:

- ◆ describing only what you see and hear
 - ◆ recording what the learner is doing and saying in as much detail as possible
 - ◆ not judging – avoid giving your own ideas and opinions
 - ◆ observing each learner regularly, in different activities and at different times of the day.

Zwe nda vhona:



Vidiyo ya 1

1. Kha vha Ქalele vidiyo ya tshigwada tsha vhagudi tshi tshi khou tamba mutambo, wa Bingo. Kha vha Ქwale zwe vha vhona kha vhagudi.

2. Ndi hufhio u lavhelesa havho hu re mbuno nahone ndi hufhio hu re khumbulelwa? Kha vha sedze mutevhe wavho vha Ქwale 'M' kana 'K' tsini na tshitatamennde tshiñwe na tshiñwe.

Musi ri tshi Ქwala zwine ra **humbula** uri mugudi a nga ita kana a nga si kone u ita, kana vhudipfi ha mugudi, ri khou humbulela. Ndila yone fhedzi ya u Ქivha zwine mugudi a khou humbula kana vhudipfi hawe, ndi u mu humbela uri a vha vhudze.

U lavhelesa hu sa Ქaluli hu katela:

- ◆ u Ქalusa fhedzi zwine vha khou vhona na u pfa
- ◆ u rekhoda zwine mugudi a khou ita na u amba nga vhudalo nga hune zwa konadzea
- ◆ u sa haṭula – vha lingedze u sa Ქea mihumbulo na kuvhonele zwavho
- ◆ u lavhelesa mugudi muñwe na muñwe tshifhinga tshoṭhe, kha nyito dzo fhambanaho na nga zwifhinga zwe fhambanaho zwa Ქuvha.



Activity 3

1. Think about your observations of *one* of your learners in Term 3. What mathematical knowledge and skills is this learner developing?

2. Refer to (3) to (5) of the *Take back to school task* from Workshop 9 (page 8).
 - ◆ Discuss your use of the '**Check that learners are able to**' observation list (eye box) during teacher-guided activities.
 - ◆ Show members of your group your learner observation book.
 - ◆ Take turns to discuss a learner's progress. Which mathematical skills did you observe? How do you know? (What did the learner do and say?)
 - ◆ Explain how you captured this information using the Term 3: Exemplar Record of Continuous Assessments.
 - ◆ Did you manage to implement a differentiated approach to teaching and learning in your class. If so, how?

Assessment in Grade R

Assessment in Grade R is used to make decisions about the best way to support each learner's development. During teacher-guided activities, whole class activities as well as other activities in the daily programme, you will have opportunities to observe learners and gain insight into their progress. This information should guide your planning for further teaching and learning.

The continuous assessment tables in CAPS and in the Maths Programme's *Activity Guides* are based on the content that has been taught each term and can be used to summarise each learner's progress during the term.

Note that skills and behaviours should be observed on several occasions so that patterns of development over time can be recorded.



Nyito ya 3

1. Kha vha humbule nga zwe vha lavhelesa nga muthihi wa vhagudi vhavho kha Kotara ya 3. Ndi ndivho ya mbalo na zwikili zwifhio zwine mugudi a khou bvelela khazwo?

2. Kha vha sedze kha (3) u ya kha (5) dza *Mushumo wa u tuwa nawo tshikoloni* u bva kha Wekishopo ya 9 (siaṭari ḥa 9).

- ◆ Kha vha haseledze tshumiso yavho ya mutevhe wa u lavhelesa wa '**Kha vha ṭole uri vhagudi vha a kona u**' (kha iṭo tshibogisini) nga tshifhinga tsha nyito dzo rangwaho phanḍa nga mugudisi.
- ◆ Kha vha sumbedze miraḍo ya tshigwada tshavho bugu ya u lavhelesa vhagudi yavho.
- ◆ Kha vha sielisane u haseledza mvelephanda ya mugudi. Ndi zwikili zwa mbalo zwifhio zwe vha vhona? Vha zwi ḫivha hani? (Ndi zwifhio zwe mugudi a ita na u amba?)
- ◆ Kha vha ḫalutshedze uri vho ḫwalisa hani mafhungo aya vha tshi shumisa Kotara ya 3: Tsumbo ya Rekhodo ya u Linga hu yaho Phanḍa.
- ◆ Vho kona u thoma maele a u fhambanyisa a u funza na u guda kiḍasini yavho. Arali zwo ralo, hani?

U linga kha Gireidi ya ḫ

U linga kha Gireidi ya ḫ hu shumiswa u itela u dzhia tsheo nga ndila ya khwinesa ya u tikeda mveledziso ya mugudi muñwe na muñwe. Nga tshifhinga tsha nyito dzo rangwaho phanḍa nga mugudisi, nyito dza kiḍasi yothe khathihi na dziñwe nyito kha mbekanyamushumo ya ḫuvha ḫiñwe na ḫiñwe, vha ḫo vha na zwikhala zwa u lavhelesa vhagudi na u wana ndivho nga mvelaphanda yavho. Mafhungo aya a fanela u endedza u pulana havho u itela u isa phanḍa u funza na u guda.

Thebuļu dza u linga hu yaho phanḍa dici re kha TSHIPOKHALI na kha *Nyendedzi dza Nyito* dza Mbekanyamushumo ya Mbalo dzo ḫisendeka kha magudiswa ane o no funzwa kha kotara iñwe na iñwe nahone dici nga shumiswa u ita manweledzo a mvelaphanda ya mugudi muñwe na muñwe nga tshifhinga tsha kotara iyo.

Vha dzhiele nzhele uri zwikili na vhuḍifari zwi fanela u lavheleswa lunzhi u itela uri phetheni dza mveledziso dici kone u rekhodiwa nga murahu ha tshifhinga.

Session 2: The guiding principles of teaching maths in Grade R

1 hour

Throughout the Maths Programme training, we have referred to the guiding principles of teaching maths in Grade R and how these are incorporated into daily classroom practice. Some of the principles are easier to identify and implement than others. As teachers we need to be constantly aware of how, where and when we are using these principles in our classrooms.



Activity 4

The facilitator will assign one of the guiding principles of teaching maths in Grade R to your group. You will receive a picture of this principle.

1. In your group, discuss the following questions:
 - ◆ What is your understanding of this principle ‘in action’?
 - ◆ Does the Maths Programme make it possible to incorporate this principle in your daily teaching?
 - ◆ Now that you have implemented the Maths Programme for three terms, what are your reflections on this principle?
 - ◆ How would your teaching be affected if this principle was absent from your classroom approach?
2. Paste the picture onto a sheet of flipchart paper. Write your comments below the picture so that you can share these with the whole group.

Dzulo ḥa 2: Milayo ya nyendedzi dza u funza mbalo kha Gireidi ya Ṭ

Awara 1

Kha u pfumbudzwa hothe kha Mbekanyamushumo ya Mbalo, ro amba nga milayo ya nyendedzi dza u funza mbalo kha Gireidi ya Ṭ na uri izwi two katelwa hani ngomu ha ndowelo ya kilasini ya ḫuvha liñwe na liñwe. Miñwe ya milayo yo leluwa u i topola na u i thoma u fhira miñwe. Sa vhagudisi ri fanela u dzulela u ḫivha uri hani, ngafhi na lini hune ra khou shumisa milayo iyi ngomu kilasini dzashu.



Nyito ya 4

Mutshimbidi u do nea muniwe wa milayo ya nyendedzi dza u funza mbalo kha Gireidi ya Ṭ tshigwada tshavho. Vha do ḫanganedza tshifanyiso tsha mulayo uyu.

1. Tshigwadani tshavho, kha vha haseledze mbudziso dzi tevhelaho:
 - ◆ Ndi kufhio kupfesesele kwavho kwa mulayo uyu ‘u tshi khou shuma’?
 - ◆ Mbekanyamushumo ya Mbalo i a zwi konisa u katela mulayo uyu kha u funza havho ha ḫuvha liñwe na liñwe?
 - ◆ Zwino vhunga vho thoma Mbekanyamushumo ya Mbalo ya kotara tharu, ndi zwifhio zwine vha nga amba nga mulayo uyu?
 - ◆ Kufunzele kwavho ku do kwamea hani arali mulayo uyu wo vha u siho kha maele a kilasirumu yavho?
2. Kha vha nambatedze tshifanyiso kha shithi ḥa bammbiri ḥa filipitshati. Kha vha nwale mahumbulwa phasi ha tshifanyiso u itela uri vha do kona u kovhana izwi na tshigwada tshihulwane.

1. The context principle. Learning takes place in meaningful and appropriate situations.

THE EIGHT PRINCIPLES OF GRADE R MATHS

8. The practice principle. Learning is consolidated through practising new skills and knowledge.

2. The activity principle. Learners should be directly involved in the learning-teaching process.

7. The inclusivity principle. Learning takes place in an environment where everyone is welcomed, included, treated fairly, respected and can participate.

3. The play principle. Children learn best in free-play and guided-play activities.

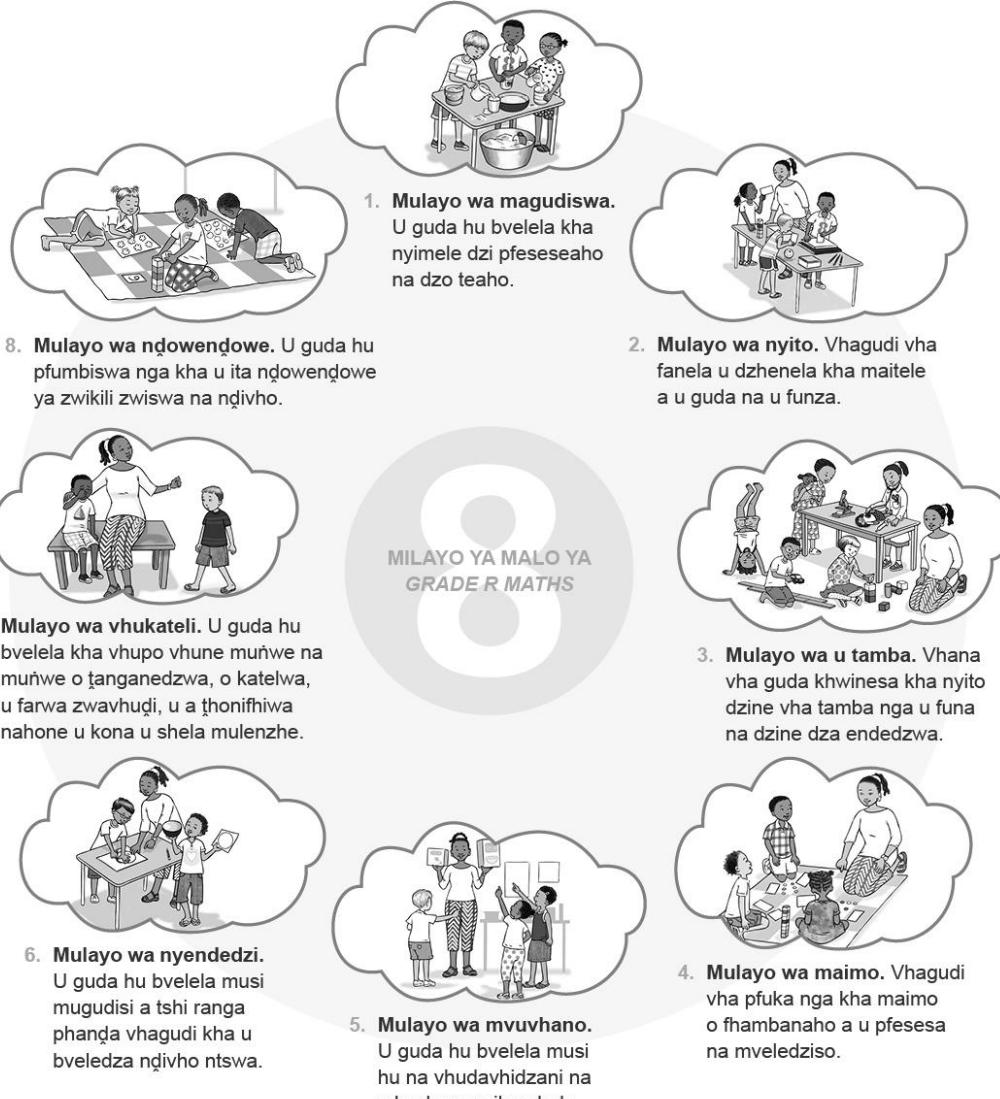
6. The guidance principle. Learning takes place when teachers guide learners in developing new knowledge.

4. The level principle. Learners pass through various levels of understanding and development.

5. The interaction principle. Learning takes place when there is communication and sharing of ideas.

8

MILAYO YA MALO YA
GRADE R MATHS

- 
- 1. Mulayo wa magudiswa.**
U guda hu bvelela kha nyimele dzi pfeseseaho na dzo teaho.
 - 2. Mulayo wa nyito.** Vhagudi vha fanela u dzenela kha maitele a u guda na u funza.
 - 3. Mulayo wa u tamba.** Vhana vha guda khwinesa kha nyito dzine vha tamba nga u funa na dzine dza endedzwa.
 - 4. Mulayo wa maimo.** Vhagudi vha pfuka nga kha maimo o fhambanaho a u pfesesa na mveledziso.
 - 5. Mulayo wa mvuvhano.** U guda hu bvelela musi hu na vhudavhidzani na u kovhana mihumbulo.
 - 6. Mulayo wa nyendedzi.**
U guda hu bvelela musi mugudisi a tshi ranga phanqha vhagudi kha u bveledza ndivho ntswa.
 - 7. Mulayo wa vhukateli.** U guda hu bvelela kha vhupo vhune murwe na munwe o tanganedzwa, o katela, u farwa zwavhuji, u a thonifhiwa nahone u kona u shela mulenzhe.
 - 8. Mulayo wa nqowendewe.** U guda hu pfumbiswa nga kha u ita nqowendewe ya zwikili zviswa na ndivho.

Session 3: Introducing numbers 10 and 0

1 hour

Introducing number 10

The ten numerals used in our place value number system are 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9. These numerals are used to represent units (ones) and to represent an infinite number of values, for example:

- ◆ tens
- ◆ hundreds
- ◆ thousands, and so on.

Learners in the Foundation Phase need to understand that the same numeral can be used to represent different values, depending on the position of the numeral in a number. For example, in each of the numbers below '3' has a different value:

- ◆ in 3, its value is 'three'
- ◆ in 31, its value is 'thirty'
- ◆ in 349, its value is 'three hundred'.

Place value is a difficult concept for learners to understand. Researchers have found that many learners up to the age of eight think that the '1' in 15 means 'one'.

In Grade 1 learners explore the base ten number system, working with numbers from 11 onwards. They represent these numbers with groups of tens and single ones (units). When they work with numbers 11–19, they begin to understand that in a number like 14, the numeral 1:

- ◆ does not mean 1
- ◆ represents 10 ones
- ◆ therefore, is also 1 ten (1 group of ten).

They also understand that the numeral 4 in 14, represents 4.

DID YOU KNOW?

In the Foundation Phase, learners talk about 'tens' and 'units' as 'groups of ten' and single 'ones'. They represent two-digit and three-digit numbers using grouping models and expanding number cards.

Dzulo la 3: U ñdivhadza nomboro 10 na 0

Awara 1

U ñdivhadza nomboro 10

Zwiga zwa nomboro zwa fumi zwe shumiswaho kha sisiñeme ya vhuimo ha nomboro yashu ndi 0, 1, 2, 3, 4, 5, 6, 7, 8 na 9. Zwiga izwi zwa nomboro zwi shumiswa u imela nomboro tshiñáhe (tshithihi) na u imela ndeme dza nomboro dzi sa gumi, sa tsumbo:

- ◆ mahumi
- ◆ mañana
- ◆ zwigidi, ngauralongauralo.

Vhagudi vha Vhuimo ha Fhasi vha fanela u pñsesa uri zwiga zwa nomboro zwi fanaho zwi nga shumiswa u imela ndeme dzo fhambanaho, zwi tshi ya ngauri vhuimo ha tshiga tsha nomboro kha nomboro. Sa tsumbo, kha iñwe na iñwe ya nomboro i re afho fhasi '3' i na ndeme dzo fhambanaho:

- ◆ kha 3, ndeme yayo ndi 'raru'
- ◆ kha 31, ndeme yayo ndi 'furaru'
- ◆ kha 349, ndeme yayo ndi 'mañana mararu'.

Vhuimo ha nomboro ndi ñdivhaipfi i konđelaho vhagudi u pñsesa. Vhañdisisi vho wana uri vhunzhi ha vhagudi vha u swika kha vhukale ha miñwaha ya malo vha humbula uri '1' kha 15 zwi amba 'thihi'.

Kha Gireidi ya 1 vhagudi vha tandula sisiñeme ya desimala ya fumi, vha tshi shuma nga nomboro u bva kha 11 u ya phanda. Vha imela nomboro idzi nga zwigwada zwa mahumi na zwa tshithihi (nomboro ya tshiñáhe). Musi vha tshi shuma nga nomboro 11–19, vha thoma u pñsesa uri kha nomboro i fanaho na 14, tshiga tsha nomboro 1:

- ◆ a tshi ambi uri ndi 1
- ◆ tshi imela 10 luthihi
- ◆ zwenezwo, ndi fumi 1 (tshigwada 1 tsha fumi).

Vha dovha vha pñsesa uri tshiga tsha nomboro 4 kha 14, tshi imela 4.

VHO VHA VHA TSHI ZWI DIVHA?

Kha Vhuimo ha Fhasi, vhagudi vha amba nga 'mahumi' na 'nomboro tshiñáhe' sa 'zwigwada zwa fumi' na 'tshithihi'. Vha imela nomboro dza didzhithi mbili na didzhithi tharvha tshi shumisa mimodele ya zwigwada na magaraña a nomboro ya notshesheni yo tatamudzwaho.

We do not introduce place value in Grade R. The focus in this grade is on understanding the value of the numbers 0–10 and on building a strong number concept within this range. If learners have a good concept of the numbers to 10, this knowledge can be extended in Grade 1 and other grades.



Activity 5

IMPORTANT!

This activity is for the development of your own knowledge and enrichment. It is not appropriate for Grade R learners. Do NOT introduce this activity in Grade R.

Use the counters, sticks and number cards provided to represent the following numbers:

14 31 22 43

1. Represent each number using counters: make groups of ten and single ones.
2. Represent each number using sticks and string: make bundles of ten and single ones.
3. Label the bundles with the correct number cards.
4. Talk about how many groups of ten and how many ones each number has.
5. Discuss the value of each numeral.

6. Which apparatus do you think was more appropriate for representing the concepts of ‘groups of ten’ (‘tens’) and ‘ones’? Explain your answer.

7. What do you notice about the value of the numerals in the numbers you represented with the number cards?

A ri ḋivhadzi vhuimo ha nomboro kha Gireidi ya T. Tsho sedzeswaho kha gireidi iyi ndi u pfectesa ndeme ya nomboro 0–10 na u fhaṭa ḋivhaipfi ya nomboro yo khwathaho ngomu ha tsielano iyi. Arali vhagudi vha na ḋivhaipfi yavhuđi ya nomboro u swika kha 10, ndivho iyi i nga engedzwa kha Gireidi ya 1 na dzinwe gireidi.



Nyito ya 5

KHA VHA DZHIELE NZHELE!

Nyito iyi ndi ya u bveledza ndivho yavho vhone vhañe na u pfumisa ndivho. A yo ngo tea vhagudi vha Gireidi ya T. Vha SONGO ḋivhadza nyito iyi kha Gireidi ya T.

Kha vha shumise zwithu zwa u vhalela ngazwo, zwitanda na magaraṭa a nomboro zwo netshedzwaho u imela nomboro dzi tevhelaho:

14 31 22 43

1. Kha vha imele nomboro iñwe na iñwe vha tshi shumisa zwithu zwa u vhalela ngazwo: kha vha ite zwigwada zwa fumi na zwa tshithihi.
2. Kha vha imele nomboro iñwe na iñwe vha tshi shumisa zwitanda na mudali: kha vha ite madzanda a fumi na a tshithihi.
3. Kha vha leibele madzanda nga magaraṭa a nomboro o teaho.
4. Kha vha ambe nga uri nomboro iñwe na iñwe i na zwigwada zwingana zwa fumi na zwingana zwa tshithihi.
5. Kha vha haseledze ndeme ya tshiga tsha nomboro tshiñwe na tshiñwe.
6. Ndi zwishumiswa zwifhio zwine vha humbula uri ho vha zwone zwo teaho u imela ḋivhaipfi ya ‘zwigwada zwa fumi’ (‘mahuni’) na ‘tshithihi’? Kha vha ḥalutshedze phindulo yavho.

7. Vha khou vhona mini nga ndeme ya zwiga zwa mbalo kha nomboro dze vha imela nga magaraṭa a nomboro?

Grade R learners **do not need to understand place value**. They do need to:

- ◆ understand the value (the ‘how muchness’) of numbers 0–10
- ◆ understand the different combinations of numbers up to 10
- ◆ understand that even though 10 is made up of the numerals 1 and 0, it is NOT $1 + 0$ and it has its own value (‘how muchness’)
- ◆ understand and be able to represent the different values of 1, 0 and 10.



Activity 6

1. In your group, discuss ideas for teaching the number 10 in your Grade R classroom. Include the use of different representations.

2. Present your ideas to the whole group.

Introducing number 0

In Grade R, learners need to understand that zero is a number and the number symbol for it is ‘0’.

Young children find the concept of ‘emptiness’ difficult to understand. When learners are faced with an empty plate, container, box or bag they will often use words such as ‘no more’, ‘all gone’, ‘nothing left’, ‘none’ or ‘empty’ to describe the situation. Teachers should accept these correct descriptions, but should also introduce the word ‘zero’. The word ‘zero’ should be used consistently, even when counting down or backwards, e.g., when counting backwards from four: ‘four, three, two, one, zero’. The symbol ‘0’ should be placed on the number washing line. The 0 number cards should be used to represent that an object (such as a plate, tub, lid, box) is empty.

Vhagudi vha Gireidi ya T a vho ngo fanelu u pfectesa vhuimo ha nomboro. Vha fanelu zwavho u:

- ◆ pfectesa ndeme ('ndi zwingana') ya nomboro 0–10
- ◆ pfectesa phathekhangyo dzo fhambanaho dza nomboro u swika kha 10
- ◆ pfectesa uri na musi 10 yo vhumbwa nga zwiga zwa mbalo 1 na 0, A SI 1 + 0 nahone i na ndeme yayo ('ndi zwingana')
- ◆ pfectesa na u kona u imela ndeme dzo fhambanaho dza 1, 0 na 10.



Nyito ya 6

1. Tshigwadani tshavho, kha vha haseledze mihumbulo ya u funza nomboro 10 kilasini yavho ya Gireidi ya T. Vha katele tshumiso ya u imela ho fhambanaho.
-
-
-
-
-

2. Kha vha kumedze mihumbulo yavho kha tshigwada tshihulwane.

U divhadza nomboro 0

Kha Gireidi ya T, vhagudi vha fanelu u pfectesa uri pumu ndi nomboro na uri tshiga tsha nomboro tshalo ndi '0'.

Vhana vhatuku vha a kondelwa u pfectesa divhaipfi ya 'u sa vha na tshithu'. Musi vhagudi vho sedzana na phulethi, tshifaredzi, bogisi kana sagana zwi si na tshithu vha anzela u shumisa maipfi a fanaho na 'u fhela', 'u tuwa zweathe', 'a hu na tsho salaho', 'a hu na tshithu' kana 'u sa vha na tshithu' u talusa nyimele. Vhagudisi vha fanelu u tanganedza hedzi thaluso dzi re dzone, fhedzi vha fanelu u divhadza ipfi 'pumu'. Ipfi 'pumu' li fanelu u shumiswa tshifhinga tshothe, na musi vha tshi vhalela u humela murahu, sa tsumbo, musi vha tshi vhalela u humela murahu u bva kha ina: 'ina, raru, mbili, nthihi, pumu'. Tshiga '0' tshi fanelu u vhewa kha muthambi wa u anea nomboro. Magara ta a nomboro 0 a fanelu u shumiswa u imela uri tshithu (u fana na phulethi, tshidongo, tshitibo, bogisi) a hu na tshithu.



Video 2

1. Watch the video of a teacher introducing and consolidating the concept of zero.
 - ◆ What do you see happening?
 - ◆ How was the concept of zero introduced?
 - ◆ What did the learners do and say?
 - ◆ What was the role of the teacher?
 - ◆ What was the benefit of using a variety of activities to teach the concept?
2. Write down your observations.



Vidiyo ya 2

1. Kha vha ḥalele vidiyo ya mugudisi a tshi khou ḫivhadza na u pfumbisa ḫivhaipfi ya pumu.
 - ◆ Ni khou vhona hu tshi khou itea mini?
 - ◆ ḫivhaipfi ya pumu yo ḫivhadzwa hani?
 - ◆ Ndi zwifhio zwe vhagudi vha ita na u bula?
 - ◆ Mushumo wa mugudisi wo vha ufhio?
 - ◆ Mbuelo ya u shumisa nyito dzo fhambanaho u funza ḫivhaipfi yo vha ifhio?

2. Kha vha ḥwale fhasi zwe vha vhona.

Session 4: Planning for teaching

1½ hours

This workshop session prepares participants for implementing Term 4 Weeks 1–3. By this stage of the year, the teacher will have noticed distinct differences between learners' levels of progress. Term 4 builds on the content of Terms 1, 2 and 3. Some learners will be ready for this, while others will need support and more consolidation to progress. It is important to plan and prepare for this difference in learner competence to ensure that all the content and skills of Grade R Mathematics are covered, and learners are well prepared for Grade 1.



Activity 7

1. In your group, complete the planning templates for Term 4 Weeks 1–3 (Appendix A).
2. Discuss the following questions:
 - ◆ How is the week structured?
 - ◆ How does the content build on previous lessons?
 - ◆ Do the whole class activities successfully create opportunities for the discussion and exploration of new knowledge?
 - ◆ How does the teacher-guided activity provide opportunities for the teacher to assess and support the learners?
 - ◆ Do the independent small group activities allow for adequate practice of new knowledge and skills?
 - ◆ How could you prepare additional activities to support learners who have not yet mastered a particular skill?
 - ◆ Suggest some ways to extend learning opportunities for advanced learners.
 - ◆ How could you work with a colleague to prepare for each week?

Dzulo la 4: U pulanela u funza

Awara 1½

Dzulo ili la wekishopo li lugisela vhashelamulenzhe u thoma Kotara ya 4 Vhege ya 1–3. Nga tshino tshifhinga tsha iñwaha, mugudisi u ño vha o no limuwa phambano vhukati ha levele dza mvelaphanda dza vhagudi. Kotara ya 4 i fhaña kha magudiswa a Kotara ya 1, 2 na 3. Vhañwe vhagudi vha ño vha vho no lugela izwi, ngeno vhañwe vha tshi ño töda thikhedzo na u pfumbiswa hunzhi u itela mvelaphanda. Ndi zwa ndeme u pulana na u lugisela phambano iyi kha vhukoni ha vhagudi u itela uri magudiswa oþe na zwikili zwa Mbalo dza Gireidi ya T zwo kwamiwa, nahone vhagudi vho lugiselwa zwavhuði u ya kha Gireidi ya 1.



Nyito ya 7

1. Tshigwadani tshavho, kha vha fhedzise themphuþeithi dza u pulanela Kotara ya 4 Vhege ya 1–3 (Thumetshedzo ya A).
2. Kha vha haseledze mbudziso dzi tevhelaho:
 - ◆ Vhege yo dzudzanywa hani?
 - ◆ Magudiswa a fhaña hani kha ngudo dzo fhiraho?
 - ◆ Nyito dza kiłasi yoþe dzi a sika zwavhuði zwikhala zwa khaseledzo na thandulo ya nðivho ntswa?
 - ◆ Nyito yo rangwaho phanda nga mugudisi i ñetshedza hani vhagudisi zwikhala zwa u linga na u tikedza vhagudi?
 - ◆ Hone nyito dza tshigwada tshiþuku dzo ñiimisaho dzi a tendela nðowendowe yo linganelaho ya nðivho ntswa na zwikili?
 - ◆ Vha nga lugisela hani nyito dza u engedza u itela u tikedza vhagudi vhane a vha athu kona tshikili tiwa?
 - ◆ Kha vha dzinginye dziñwe nðila dza u engedza zwikhala zwa u guda u itela vhagudi vha konaho.
 - ◆ Vha nga shuma hani na mushumisani u lugisela vhege iñwe na iñwe?

Closing activities

30 minutes



Activity 8

Workshop reflection: Take a few minutes to reflect on the day. Page through your *Participant's Workbook* to remind yourself of what was covered. Write down your thoughts.

- ◆ I learnt _____

- ◆ I did not like _____

- ◆ I enjoyed _____

- ◆ I now understand _____

- ◆ I'm still not clear about _____

- ◆ I would like more information on _____

Share your reflections with the whole group.



Take back to school task

1. Use *Activity Guide: Term 4* to plan and implement Term 4 Weeks 1–3 of the Maths Programme.
2. Write comments in the book that you use to keep track of each learner's progress (learner observation book). Use the '**Check that learners are able to**' observation list (eye box) during each of the teacher-guided activities to guide your observations and comments.
3. Make notes of what worked well, what did not work well and how you resolved any challenges during your implementation of Term 4 Weeks 1–3.
4. Bring your learner observation book and the notes you made when reflecting on each day's teaching to the next workshop.

Evaluation

Complete the Evaluation Form.

Nyito dza u vala

Minetse ya 30



Nyito ya 8

U amba nga wekishopo: Kha vha dzhie minetse i si gathi u amba nga ḫuvha. Kha vha fhende *Bugu ya Mushumo ya Vhashelamulenzhe* yavho u vha humbudza nga zwe zwa kwamiwa. Kha vha እwale mihibulo yavho.

- ◆ Ndo guda _____
- ◆ A tho ngo takalela _____
- ◆ Ndo ደփիና _____
- ◆ Zwino ndi a pfesesa _____
- ◆ A thi athu vha khagala nga _____
- ◆ Ndi kha ጭ ትoda mañwe mafhungo manzhi nga _____

Kha vha kovhane zwe vha amba na tshigwada tshihulwane.



Mushumo wa u ታው ነው tshikoloni

1. Kha vha shumise *Nyendedzi ya Nyito: Kotara ya 4* u pulana na u thoma Kotara ya 4 Vhege ya 1–3 dza Mbekanyamushumo ya Mbalo.
2. Kha vha እwale mahumbulwa buguni ine vha i shumisa u itela u sedza mvelaphandà ya mugudi muñwe na muñwe (bugu ya u lavhelesa vhagudi). Kha vha shumise mutevhe wa u lavhelesa wa ‘**Kha vha ታለ ሆሪ ድሕሪ የኩል አኩል**’ (kha ito tshibogisini) nga tshifhinga tsha nyito dzo rangwaho phandà nga mugudisi dziñwe na dziñwe u itela u endedza u lavhelesa havho na mahumbulwa.
3. Kha vha ite notsi dza zwe zwa shuma zwavhuđi, zwe zwa si shume zwavhuđi, na uri vho tandulula hani dzikhaedu dziñwe na dziñwe nga tshifhinga tsha u thoma havho Kotara ya 4 Vhege ya 1–3.
4. Kha vha ጭ na bugu ya u lavhelesa vhagudi na notsi dze vha ita musi vha tshi khou amba nga u funza ha ḫuvha እንዱ እንዱ kha wekishopo i tevhelaho.

U linga

Kha vha ደድዕስ Fomo ya u Linga.

APPENDIX A: TERM 4 WEEKLY PLANNING TEMPLATE

Term 4: Activity Plan: Week ____

CONTENT AREA:			
TOPIC:			
INTRODUCE NEW KNOWLEDGE:			
PRACTISE:			
Whole class activities	Teacher-guided activity	Workstation activities (independent small group activities)	
Day 1		Activity 1	
Day 2		Activity 2	
Day 3		Activity 3	
Day 4		Activity 4	
Day 5			

THUMETSHEZO YA A: THEMPHULEITHI YA U PULANA YA VHEGE NGA VHEGE YA KOTARA YA 4

Kotara ya 4: Pulane ya Nyito: Vhege _____

SIA LA MAGUDISWA:																			
ATHERO:																			
KHA VHA DIVHADZE NDIVHO NTSWA:																			
NDOWEDZO:																			
<table border="1"> <thead> <tr> <th>Nyito dza kilasi yothe</th><th>Nyito yo rangwaho phanda nga mugudisi</th><th>Nyito dza tshitishini tsha u shumela (nyito dza tshigwada tshituku tsho diimisaho)</th></tr> </thead> <tbody> <tr> <td>Duvha la 1</td><td></td><td>Nyito ya 1</td></tr> <tr> <td>Duvha la 2</td><td></td><td>Nyito ya 2</td></tr> <tr> <td>Duvha la 3</td><td></td><td>Nyito ya 3</td></tr> <tr> <td>Duvha la 4</td><td></td><td>Nyito ya 4</td></tr> <tr> <td>Duvha la 5</td><td></td><td></td></tr> </tbody> </table>		Nyito dza kilasi yothe	Nyito yo rangwaho phanda nga mugudisi	Nyito dza tshitishini tsha u shumela (nyito dza tshigwada tshituku tsho diimisaho)	Duvha la 1		Nyito ya 1	Duvha la 2		Nyito ya 2	Duvha la 3		Nyito ya 3	Duvha la 4		Nyito ya 4	Duvha la 5		
Nyito dza kilasi yothe	Nyito yo rangwaho phanda nga mugudisi	Nyito dza tshitishini tsha u shumela (nyito dza tshigwada tshituku tsho diimisaho)																	
Duvha la 1		Nyito ya 1																	
Duvha la 2		Nyito ya 2																	
Duvha la 3		Nyito ya 3																	
Duvha la 4		Nyito ya 4																	
Duvha la 5																			

Term 4: Activity Plan: Week ____

CONTENT AREA:			
TOPIC:			
INTRODUCE NEW KNOWLEDGE:			
PRACTISE:			
Whole class activities		Teacher-guided activity	Workstation activities (independent small group activities)
Day 1			Activity 1
Day 2			Activity 2
Day 3			Activity 3
Day 4			Activity 4
Day 5			

Kotara ya 4: Pulane ya Nyito: Vhege ____

SIA LA MAGUDISWA:				
ATHERO:				
KHA VHA DIVHADZE NDIVHO NTSWA:				
NDOWEDZO:				
Nyito dza kilasi yo^{the}	Nyito yo rangwaho phanda nga mugudisi	Nyito dza tshititshini tsha u shumela (nyito dza tshigwada tshituku tsho diimisaho)	Nyito ya 1	
Duvha la 1			Nyito ya 2	
Duvha la 2			Nyito ya 3	
Duvha la 3			Nyito ya 4	
Duvha la 4				
Duvha la 5				

Term 4: Activity Plan: Week ____

CONTENT AREA:			
TOPIC:			
INTRODUCE NEW KNOWLEDGE:			
PRACTISE:			
Whole class activities		Teacher-guided activity	Workstation activities (independent small group activities)
Day 1			Activity 1
Day 2			Activity 2
Day 3			Activity 3
Day 4			Activity 4
Day 5			

Kotara ya 4: Pulane ya Nyito: Vhege ____

SIA LA MAGUDISWA:				
THERO:				
KHA VHA DIVHADZE NDIVHO NTSWA:				
NDOWEDZO:				
Nyito dza kilasi yo^{the}	Nyito yo rangwaho phanda nga mugudisi	Nyito dza tshititshini tsha u shumela (nyito dza tshigwada tshituku tsho diimisaho)	Nyito ya 1	
Duvha la 1			Nyito ya 2	
Duvha la 2			Nyito ya 3	
Duvha la 3			Nyito ya 4	
Duvha la 4				
Duvha la 5				

Workshop 10 Evaluation Form

1. Did the workshop meet your expectations?

2. What did you learn in this workshop that helped you the most?

3. Was there anything that you did not like or had difficulty understanding?

4. How will you apply what you have learnt in your Grade R classroom?

5. Do you have any suggestions for improving further workshops?

Fomo ya u Linga ya Wekishopo ya 10

1. Wekishopo yo swikelela ndavhelelo dzavho?

2. Ndi zwifhio zwe vha guda kha iyi wekishopo zwe zwa vha thusesa?

3. Ho vhuya ha vha na zwiñwe zwe vha si zwi takalele kana zwe vha kondelwa u zwi pñsesa?

4. Vha ño shumisa hani zwe vha guda ngomu kiñasirumuni yavho ya Gireidi ya T?

5. Vha na zwine vha tama u dzinginya u itela u khwinisa wekishopo dzi tevhelaho?
