



**GAUTENG PROVINCE**  
EDUCATION  
REPUBLIC OF SOUTH AFRICA

**GGT 2030**  
GROWING GAUTENG TOGETHER

Xitsonga/English

# **Nongonoko wa Antswiso wa Matematiki wa Giredi ya V Grade R Mathematics Improvement Programme**



**Ndzetelavutivi wa 9 • Workshop 9  
Buku ya Ntirho ya Vatekaxiave • Participant's Workbook**

The Grade R Mathematics and Language Improvement Project is an initiative of the **Gauteng Department of Education** and its key partner, the **Gauteng Education Development Trust**.

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The Grade R Mathematics and Language Improvement Project is managed by **JET Education Services** with UCT's **Schools Development Unit** and **Wordworks** as technical partners.

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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- The R-Maths writing team: SDU staff and consultants.



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Phurojeke ya Antswiso wa Matematiki na Tindzimi ya Giredi ya V i matshalatshala ya **Ndzawulo ya Dyondzo ya Gauteng (Gauteng Department of Education)** na mutirhisankulu wa yona, **Gauteng Education Development Trust**.

Nhluvukiso na vuhumelerisi bya swipfuno swa vuleteri na swa le kamareni ro dyondzela swa Phurojeke ya Antswiso wa Matematiki na Tindzimi ya Giredi ya V swi endliwile swi koteka hi timali ta tiphurojeke to hananiwa kusuka eka **United States Agency for International Development** na **Zenex Foundation**.

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**Schools Development Unit (SDU)** leyi nga eka **University of Cape Town (UCT)** i mutirhisani wa xithekiniki wa matematiki eka Phurojeke ya Antswiso wa Matematiki na Tindzimi ya Giredi ya V. SDU i yuniti leyi kumekaka eka School of Education ya le UCT leyi yi kongomisaka eka nhluvukiso wa xiphurofexinali wa vadyondzisi eka Matematiki, Sayense, Litheresi/Ririmini na Swikili swa Vutomi kusuka eka Giredi ya V kufika eka Giredi ya 12. SDU yi nyika mithwaso ya vudyondzisi na tikhoso to koma ta UCT leti pfumeleriweke, ntirho lowu kumekaka exikolweni, nhluvukiso wa timatheriyali na ndzavisiso ku seketela madyondziselo na madyondzelo eka mivangu ya Afrika-Dzonga hinkwayo.

## SWIKHENSO

Ku khensa ko hlawuleka eka:

- Vakulukumba va Ndzawulotsongo ya Kharikhulamu, Dyondzo ya Vadyondzisi na Dyondzo yo Hlawuleka ta Ndzawulo ya Dyondzo ya Gauteng eka vuhoxaxandla bya vona ku fambelanisa matheriyali wa hina.
- Vakulukumba na vadyondzisi va Western Cape Education Department (WCED) eka vuhoxaxandla bya vona eka nsimeko lowu humeleleke wa Grade R Mathematics Programme (R-Maths) eKapa-Vupeladyambu exikarhi ka 2016 na 2019.
- Xipano xo tsala xa *R-Maths*: Vatirhi na vatsundzuxi va SDU.



Nongonoko wa Antswiso wa Matematiki wa Giredi ya V wu fambelanisiwile kusuka eka *R-Maths*, wu kandziyisiwile rosungula hi 2017 hi Schools Development Unit, University of Cape Town. Mfaneloxinawu ya mutumbuluxi ya *R-Maths* yi khomiwile hi University of Cape Town.

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# Overview

## Purpose

This is the ninth 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 3 Weeks 7–10 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 4–6
- ◆ To explore play-based strategies to support teaching maths in Grade R
- ◆ To deepen understanding of number concept in the Numbers, Operations and Relationships Content Area and to link these to the implementation of maths in the Grade R classroom
- ◆ To deepen understanding of appropriate 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 3 Weeks 7–10

## Workshop content

- |  |              |
|--|--------------|
| ◆ Opening and reflection                                       | (1 hour)     |
| ◆ Session 1: Numbers, Operations and Relationships             | (1 hour)     |
| TEA  |              |
| ◆ Session 2: Numbers, Operations and Relationships (continued) | (1 hour)     |
| ◆ Session 3: Calculation in Grade R                            | (1 hour)     |
| LUNCH  |              |
| ◆ Session 4: Planning for teaching                             | (1½ hours)   |
| ◆ Closing activities   | (30 minutes) |

# Nkatsakanyo

## Xikongomelo

Lowu i wa vukaye wa khumembirhi ya miletelavutivi ya Nongonoko wa Antswiso wa Matematiki wa Giredi ya V (Nongonoko wa Matematiki), leyi yi vumbaka xiphemu xa Phurojeke ya Antswiso wa Matematiki na Tindzimi ya Giredi ya V ya Ndzwawulo ya Dyondzo ya Gauteng (Gauteng Department of Education) (GDE).

Xikongomelo xa ndzetelavutivi lowu i ku pfuna vadyondzisi ku tirhisa Nongonoko wa Matematiki etikamareni to dyondzela ta vona. Vatekaxiave va ta kuma xivandlanene xa ku ehleketisisa hi mayelana na ku tirhisiwa ka Nongonoko wa Matematiki kutani va kanelanu nkunguhato, madyondziselo na madyondzelo ya vona. Va ta tlhela va anakanya hi ku ya emahlweni ka mudyondzi, na swilaveko swa nhluvukiso na ku dyondza swa mudyondzi hi un'weun'we. Vatekaxiave va ta ehleketisisa hi mayelana na maqhinga ya makambelelo lama faneleke ya ku rhekoda ku ya emahlweni ka mudyondzi. Ndzetelavutivi lowu wu valanga vundzeni bya Mavhiki ya 7–10 ya Kotara ya 3 na ku tirhisiwa ka byona ekamareni ro dyondzela.

Mikongomiso eka Swiyenge swa Vundzeni wa Matematiki wa Giredi ya V swi tekiwa kusuka eka *Xitatimente xa Pholisi ya Kharikhulamu na Makambelelo (XIPHOKHAMA): Matematiki wa Giredi ya V (Mpfapfarhuto wo Hetelela)*, 2011, Ndzwawulo ya Dyondzo ya Masungulo, Afrika-Dzonga.

## Mivuyelo ya dyondzo

- ◆ Ku ehleketisisa hi matirhelo ya Mavhiki ya 4–6 ya Kotara ya 3
- ◆ Ku valanga maqhinga lama simekiweke eka ntlangu ku seketela ku dyondzisa matematiki eka Giredi ya V
- ◆ Ku tiyisa ntwisiso wa nongoti wa tinomboro eka Xiyenge xa Vundzeni xa Tinomboro, Tioparexini na Vuxaka na ku xakanelanisa leswi na ku tirhisiwa ka matematiki eka kamara ro dyondzela ra Giredi ya V
- ◆ Ku tiyisa ntwisiso wa makambelelo lama faneleke eka Giredi ya V
- ◆ Ku ehleketisisa hi mitlhontlho na ku kuma switshunxo swa ku tirhisa Nongonoko wa Matematiki
- ◆ Ku kunguhata vundzeni bya Nongonoko wa Matematiki lebyi faneleke ku dyondzisiwa eka Mavhiki ya 7–10 ya Kotara ya 3

## Vundzeni bya ndzetelavutivi

- ◆ Ku pfula na ku ehleketisisa (1 ya awara)
- ◆ Sexini ya 1: Tinomboro, Tioparexini na Vuxaka (1 ya awara)

### TIE

- ◆ Sexini ya 2: Tinomboro, Tioparexini na Vuxaka (swi yisiwa emahlweni) (1 ya awara)
- ◆ Sexini ya 3: Nkhakhuleto eka Giredi ya V (1 ya awara)

### LANCI

- ◆ Sexini ya 4: Nkunguhato wa ku dyondzisa (1½ wa tiawara)
- ◆ Mgingiriko yo pfala (30 wa timinete)

# Opening and reflection

1 hour

Reflection involves thinking and talking about your experiences and what you have learnt. Consider the Maths workshops you have attended and complete the sentences the facilitator displays.

## Reflection on implementation

The *Take back to school task* from Workshop 8, required you to do the following:

- ◆ Use *Activity Guide: Term 3* to plan and implement Term 3 Weeks 4–6 of the Maths Programme.
- ◆ Write comments in the book that you use to keep track of each learner’s progress (learner observation book), and use the ‘**Check that learners are able to**’ observation list during each of the teacher-guided activities to guide your observations and comments.
- ◆ Make notes of what worked well, what did not work well and how you resolved any challenges during your implementation of Term 3 Weeks 4–6.

In the next activities make use of your learner observation book and the notes you made when reflecting on each day’s teaching.



### Activity 1

1. In your group, share your successes and challenges with implementing the Maths Programme in Term 3 Weeks 4–6. Share strategies for improving teaching and learning for the challenges you identified.

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2. Discuss your use of the ‘**Check that learners are able to**’ observation list (in the eye box) during each of the teacher-guided activities.  
Show members of your group your learner observation book.  
Select one learner and discuss your observations of this learner’s progress.

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# Ku pfula na ku ehlekisisa

1 ya awara

Vuehlekisisi byi khumba ku ehleketa na ku vulavula hi mayelana na mitokoto ya wena ya leswi u swi dyondzeke. Anakanya hi miletelavutivi ya Matematiki leyti u yeke eka yona kutani u hetisa swivulwa leswi muhumelerisi a swi kombisaka.

## Vuehlekisisi hi mayelana na matirhiselo

Xintirhwana xo tlhelela na xona exikolweni kusuka eka Ndzetelavutivi wa 8, a xi ku lava leswaku u endla leswi landzelaka:

- ◆ Tirhisa *Xiletelo xa Mgingiriko*: Kotara ya 3 ku kunguhata na ku tirhisa Mavhiki ya 4–6 ya Kotara ya 3 ya Nongonoko wa Matematiki.
- ◆ Tsala swibumabumelo ebukwini leyti u tirhisaka ku landzelerisa ku ya emahlweni ka mudyondzi un'wana na un'wana (buku ya mixiyaxiyo ya vadyondzi) kutani u tirhisa nxaxamelo wa mixiyaxiyo ya '**Kamba leswaku vadyondzi va kota ku**' hi nkarhi wa wun'wana na wun'wana wa mgingiriko leyti leteriwaka hi mudyondzisi ku letela mixiyaxiyo na swibumabumelo swa wena.
- ◆ Endla tinotsi ta leswi swi tirheke kahle swinene, leswi swi nga tirhangiki kahle swinene na hilaha u ololoxeke hakona mitlhontlho yihi kumbe yihi eka matirhiselo ya wena ya Mavhiki ya 4–6 ya Kotara ya 3.

Eka mgingiriko leyti landzelaka tirhisa buku ya mixiyaxiyo ya vadyondzi ya wena na tinotsi leti u ti endleke loko u ri karhi u ehlekisisa hi mayelana na madyondziselo ya siku rin'wana na rin'wana.



### Nghingiriko wa 1

1. Entlaweni wa n'wina, avelanani ku humeleta ka n'wina na mitlhontlho ya n'wina hi ku tirhisa Nongonoko wa Matematiki lowu nga eka Kotara ya 3 ya Mavhiki ya 4–6. Avelanani maqhingga ya ku antswisa madyondziselo na madyondzelo ya mitlhontlho leyti mi yi kumeke.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
2. Kanelani ntirhiso wa wena wa nxaxamelo wo xiyaxiya wa '**Kamba leswaku vadyondzi va kota ku**' (ebokisini ra mahlo) hi nkarhi wa wun'wana na wun'wana wa mgingiriko leyti leteriwaka hi mudyondzisi.  
Komba swirho swa ntlawa wa wena buku ya mixiyaxiyo ya vadyondzi ya wena.  
Hlawula mudyondzi un'we kutani u kanela mixiyaxiyo ya wena ya ku ya emahlweni ka mudyondzi loyi.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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3. Write the main points of your discussion on flipchart paper. Report back on your discussion to the large group.



### Video 1

Watch the video of a teacher working with a small group of learners during the teacher-guided activity in Term 3 Week 6. The focus of our observation in this workshop is on how the teacher mediates the number activities.

Observe how the teacher works through the six activities. Notice:

- ◆ how she poses problems
- ◆ the language she uses when asking questions
- ◆ how she sets up each activity
- ◆ the questions she asks to guide the learners.

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### Activity 2

Refer to the teacher-guided activity (pages 114–117) in Week 6 of *Activity Guide: Term 3*.

1. Discuss how you managed this teacher-guided activity with your class.

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2. Did you face any challenges? If so, how did you solve them?

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3. Tsalani timhakakulu ta nkanelo wa n'wina eka phepha ra chati yo pfula. Nyikani xiviko hi mayelana na nkanelo wa n'wina eka ntlawa lowukulu.



### Vhidiyo ya 1

Hlalelani vhidiyo ya mudyondzisi a ri karhi a tirha na ntlawa lowutsongo wa vadyondzi hi nkarhi wa nghingiriko lowu leteriwaka hi mudyondzisi lowu nga eka Vhiki ra 6 ra Kotara ya 3. Nkongomo wa nxiyaxiyo wa hina eka ndzetelavutivi lowu wu le ka hilaha mudyondzisi a pfunaka hakona eka migingiriko ya tinomboro.

Xiyaxiya hilaha mudyondzisi a tirhaka hakona eka migingiriko leya tsevu. Lemuka:

- ◆ hilaha a vulaka swiphiqo hakona
  - ◆ ririmi leri a ri tirhisaka loko a ri karhi a vutisa swivutiso
  - ◆ hilaha a lulamisaka hakona nghingiriko wun'wana na wun'wana
  - ◆ swivutiso leswi a swi vutisaka ku letela vadyondzi.
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### Nghingiriko wa 2

Kongomisa eka nghingiriko lowu leteriwaka hi mudyondzisi eka tipheji ta 114–117 ta Vhiki ra 6 ra *Xiletelo xa Migungiriko: Kotara ya 3*.

1. Kanelani hilaha u lawuleke hakona nghingiriko lowu leteriwaka hi mudyondzisi na tlilasi ya wena.
- 
- 
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2. Xana u hlanganile na mitlhontlho yihi kumbe yihi? Loko swi ri tano, xana u yi ololoxile njhani?
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# Session 1: Numbers, Operations and Relationships

1 hour

In previous workshops we have discussed the Numbers, Operations and Relationships Content Area. In this session we will revisit different number topics and expand our discussion to further understand number concept. We will explore the following aspects of number and connect them to classroom practice:

- ◆ oral counting
- ◆ subitising
- ◆ representing number
- ◆ counting objects
- ◆ ordinal numbers
- ◆ calculating.

## Oral counting

Children learn the correct order of number words as they play, sing, and repeat rhymes.

As we know, oral counting involves saying the number words in order. Learners sequence numbers during routine oral counting activities and during transitions. Songs, rhymes and actions make oral counting fun, but the focus is on the order of the numbers. Once learners can repeat a sequence of numbers in the correct counting order, they begin to talk about the relationship between the numbers, e.g., which number is *before*, *between* or *after* another number.



### Activity 3

In your group, discuss how the following activities have promoted learning the sequence of counting words in your class:

- ◆ songs and rhymes
- ◆ number washing line
- ◆ jumping tracks.

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# Sexini ya 1: Tinomboro, Tioparexini na Vuxaka

1 ya awara

Eka miletelavutivi ya nkarhi lowu nga hundza hi kanerile Xiyenge xa Vundzeni xa Tinomboro, Tioparexini na Vuxaka. Eka sexini leyi hi ta tlhelela eka tinhlokomhaka ta tinomboro to hambanahambana na ku ndlandlamukisa nkanelo wa hina ku twisia ku ya emahlweni nongoti wa tinomboro. Hi ta valanga swiphemu leswi landzelaka swa nomboro kutani hi swi khomanisa na ku titoloveta eka kamara ro dyondzela:

- ◆ ku hlayela ka swanomu
- ◆ ku vhumba ntsengo
- ◆ ku endla vuyimeri bya nomboro
- ◆ tinomboro ta odinali
- ◆ ku khakhuleta.

## Ku hlayela ka swanomu

Vana va dyondza nandzelelano lowu nga lulama wa mavito ya tinomboro loko va ri karhi va tlanga, va yimbelela na ku vuyeleta tirhayimi.

Tanihilaha hi swi tivaka hakona, ku hlayela ka swanomu swi khumba ku vula mavito ya tinomboro hi ku landzelelana. Vadyondzi va longoloxela tinomboro hi nkarhi wa micingiriko ya ku hlayela ka swanomu ya siku na siku na hi nkarhi wa micinco. Tinsimu, tirhayimi na swiendlo swi endla ku hlayela ka swanomu ku tsakisa, kambe nkongomo wu le ka nandzelelano wa tinomboro. Xikan'wekan'we loko vadyondzi va kota ku vuyeleta malongolokelo ya tinomboro hi nandzelelano wo hlayela lowu nga lulama, va sungula ku vulavula hi mayelana na vuxaka exikarhi ka tinomboro, xik., xana i nomboro yihi yi nga *emahlweni ka, exikarhi ka kumbe endzhaku ka* nomboro yin'wana.



## Nghingiriko wa 3

Entlaweni wa n'wina, kanelani hilaha micingiriko leyi landzelaka yi kondleteleke ku dyondziwa ka malongolokelo ya ku hlayela marito etlilasini ya wena:

- ◆ tinsimu na tirhayimi
- ◆ mugiva wa tinomboro
- ◆ tindlela to tlulela.

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## Activity 4

Read the information on pages 138–143 and look at the diagram at the top of pages 144–145 of the *Concept Guide*.

In your group, discuss the following aspects of number:

- ◆ different ‘meanings’ of number

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- ◆ different kinds of numbers

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Learners in Grade R work mostly with the whole numbers 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10. (In Grade 1 this is extended to 20 and beyond.) We focus on counting and representing number in different ways and provide opportunities for learners to engage with numbers in different contexts.

## Subitising



## Activity 5

Observe the facilitator. Each time she/he flashes a card, say as quickly as you can ‘how many’ dots you see.

1. Did you count each dot one by one? Why not?

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2. What do you think the benefit is of reinforcing the skill of subitising?

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## Nghingiriko wa 4

Hlaya vuxokoxoko lebyi nga eka tipheji ta 138–143 na ku languta dayagiramu leyi nga ehenhla ka tipheji ta 144–145 ta *Xiletelo xa Minongoti*.

Entlaweni wa n'wina, kanelani swiphemu leswi landzelaka swa nomboro:

- ◆ ‘tinhlamuselo’ to hambanahambana ta nomboro

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- ◆ mixaka yo hambanahambana ya tinomboro

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Vadyondzi va le ka Giredi ya V va tirha ngopfungopfu hi tinomboroxiheri ta 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 na 10. (Eka Giredi ya 1 leti ta ndlandlamukisiwa kuya eka 20 na kuhundza.) Hi kongomisa eka ku hlayela na ku endla vuyimeri bya nomboro hi tindlela to hambanahambana na ku nyika swivandlanene eka vadyondzi ku tirhana na tinomboro eka mivangu yo hambanahambana.

## Ku vhumba ntsengo



## Nghingiriko wa 5

Xiyaxiya muhumelerisi. Nkarhi wun'wana na wun'wana loko a komba khadi, vula hi xihatla hilaha u kotaka hakona leswaku i mathonsi ‘mangani’ u ma vonaka.

1. Xana a wu hlayela nthonsi rin'wana na rin'wana hi rin'werin'we? Hikwalahokayini swi nga ri tano?

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2. Xana u ehleketa leswaku i yini mbuyelo wa ku tiyisa xikili xa ku vhumba ntsengo?

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3. What activities that reinforce the ability to subitise have you used in your Term 1 and 2 maths sessions?

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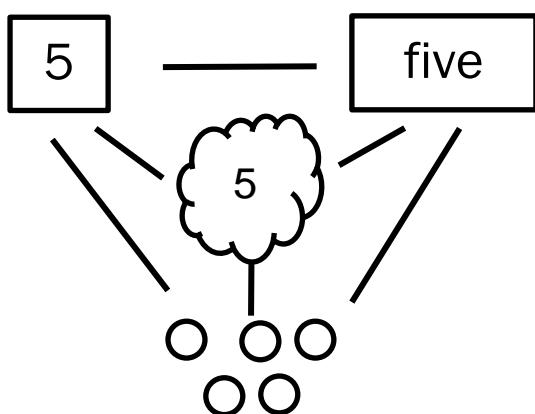
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Refer to pages 144–147 of the *Concept Guide*.

## Representing number

A number is an abstract concept. It is an idea that exists in your head. We can't see numbers, so we have to find different ways to represent (show) the number that is being referred to. Learners need to make the connection between the idea of a number, e.g., 5, and its different representations, like a collection of objects, a symbol, a word. They also need to understand that if we say, 'how many' sweets, claps, houses, birthdays, etc., five always refers to the same number of these things.

Learners need to internalise the 'how muchness' or numerosity of the number. To communicate this concept to learners, teachers need to introduce the idea using concrete objects, for example, counters. To help learners understand the concept of a number, they need to realise that numbers can be represented in different ways. Learners also need to make the connection between different representations of the number, for example an object, picture, symbol and word.



3. Xana hi yihi micingiriko leyi tiyisaka vuswikoti bya ku vhumba ntsengo leyi u yi tirhiseke eka tisexini ta wena ta matematiki eka Tikotara ta 1 na 2?

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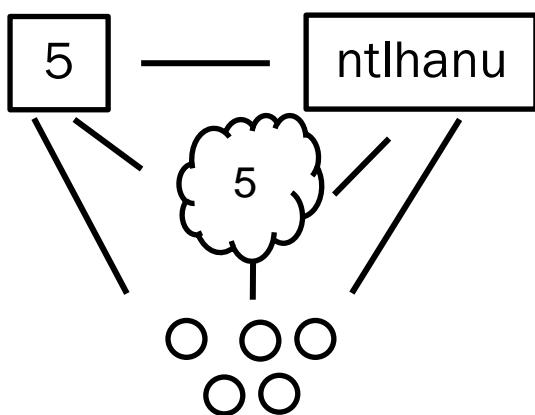
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Kongomisa eka tipheji ta 144–147 ta *Xiletelo xa Minongoti*.

### Ku endla vuyimeri bya nomboro

Nomboro i nongoti wo anakanyiwa. I muanakanyo lowu wu nga kona enhlokweni ya wena. Hi nge swi koti ku vona tinomboro, hikokwalaho hi boheka ku kuma tindlela to hambanahambana ku endla vuyimeri bya (komba) nomboro leyi ku kongomisiwaka eka yona. Vadyondzi va fanele ku endla vuxaka exikarhi ka muanakanyo wa nomboro, xik., 5, na vuyimeri bya yona byo hambanahambana, ku fana na nhlengelo wa michumu, mfungho, rito. Va fanele ku tlhela va twisia leswaku loko hi vula hi ku, i swiwitsi, miphokotelo, tindlu, masiku ya ku velekiwa ‘mangani’, sw.sw., mikarhi hinkwayo ntlhanu yi vula nhlayo yo fana ya swilo leswi.

Vadyondzi va lava ku twisia leswaku ‘i swingani’ kumbe nhlayo ya nomboro. Ku vulavurisana hi mayelana na nongoti lowu na vadyondzi, vadyondzisi va fanele ku tivisa muanakanyo lowu hi ku tirhisa michumu yo khomeka, tanihu xikombiso, swihlayeri. Ku pfuna vadyondzi ku twisia nongoti wa nomboro, va fanele ku vona leswaku tinomboro ti nga yimeriwa hi tindlela to hambanahambana. Vadyondzi va tlhela va faneli hi ku endla vuxaka exikarhi ka vuyimeri byo hambanahambana bya nomboro, tanihu xikombiso, nchumu, xifaniso, mfungho na rito.



## Session 2: Numbers, Operations and Relationships (continued)

1 hour

### Counting objects

To count '**how many**', learners need to realise that each object in a group has a number name and that you count each object only once.

There are five counting principles that describe the process of learning to count. Once learners have understood and can apply all five of these counting principles, we are able to say that they can count.



### Activity 6

Read the information on pages 148–151 of the *Concept Guide*.

1. Use the apparatus provided to demonstrate these principles as they are explained in the *Concept Guide*.
2. Discuss each principle in your group and make your own notes in the table below to explain your understanding of each principle.

One-to-one correspondence principle	
Stable order principle	
Cardinal principle	
Abstraction principle	
Order-irrelevance principle	

## **Sexini ya 2: Tinomboro, Tioparexini na Vuxaka (swi yisiwa emahlwени)**

**1 ya awara**

### **Ku hlayela michumu**

Ku hlayela leswaku '**i swingani**', vadyondzi va fanele ku vona leswaku nchumu wun'wana na wun'wana lowu nga entlaweni wu na vito ra nomboro na leswaku ku hlayersiwa nchumu wun'wana na wun'wana kan'we ntsena.

Ku na ntlhanu wa milawu yo hlayela leyi yi hlamuselaka hi ku hlawulekisa maendlelo ya ku dyondza ku hlayela. Xikan'wekan'we loko vadyondzi va twisisile naswona va kota ku tirhisa hinkwayo ntlhanu ya milawu yo hlayela leyi, hi kota ku vula leswaku va kota ku hlayela.



### **Nghingiriko wa 6**

Hlaya vuxokoxoko lebyi nga eka tipheji ta 148–151 ta *Xiletelo xa Minongoti*.

1. Tirhisa switirhisiwa leswi nyikiweke ku kombisa milawu leyi tanihilaha yi hlamuseriweke hakona eka *Xiletelo xa Minongoti*.
2. Kanelani nawu wun'wana na wun'wana entlaweni wa n'wina kutani mi endla tinotsi ta n'wina vini etafuleni leri nga laha hansi ku hlamusela ntwisiso wa n'wina wa nawu wun'wana na wun'wana.

Nawu wa yelano wa xin'we-eka-xin'we	
Nawu wa nandzelelano lowu nga cincacinciki	
Nawu wa masungulo	
Nawu wo anakanya	
Nawu wa nandzelelano-hambuko	

## Ordinal numbers

We have discussed the kinds of numbers that tell you 'how many'. These are called **cardinal numbers**.

There are also numbers that indicate the position of something or someone in a series or order. These are called **ordinal numbers**.



### Activity 7

Arrange the animal counters on your table according to the facilitator's instructions.  
Answer her/his questions about the position of the animal counters.

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## Tinomboro ta odinali

Hi kanerile mixaka ya tinomboro leti ti ku byelaka leswaku ‘i swingani’. Leti ti vitaniwa **tinomboro ta masungulo**.

Ku tlhela ku va na tinomboro leti ti kombaka xiyimo xa xilo xin’wana kumbe munhu un’wana hi ntlhandlamano kumbe nandzelelano. Leti ti vitaniwa **tinomboro ta odinali**.



### Nghingiriko wa 7

Veketelani swihlayeri swa swiharhi leswi nga etafuleni ra n’wina hi ku ya hi swileriso swa muhumelerisi. Hlamulani swivutiso swa yena hi mayelana na xiyimo xa swihlayeri swa swiharhi.

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## Session 3: Calculation in Grade R

1 hour

Learners need to understand the value of numbers and the relationships between them before they can do operations like addition and subtraction. They need to know, for example, 'how many' three is; 3 comes before 4, after 2 and between 2 and 4; and 3 is one more than 2 and one less than 4.

Working with counters, structure beads, dot cards, and the shake-and-break game provides opportunities for learners to understand that numbers can be built up or broken down. In this way, they gradually recognise that any number is made up of many different combinations of other numbers. For example, number 5 can be made up of:

- ◆ 4 and 1
- ◆ 1 and 1 and 1 and 2
- ◆ 0 and 5.

In Grade R, learners explore different ways of building up and breaking down numbers, and adding and subtracting using counters.



### Activity 8

Read the information on pages 154–156 of the *Concept Guide*.

Think about how you have used the materials provided in the Maths Programme to help learners understand number operations (calculations) and relationships. Use the materials to demonstrate this.

1. How do learners explore the concept of number in the Maths Programme using the materials provided?
  2. What questions could you ask that would guide their learning? (Refer to page 156 of the *Concept Guide* for examples of questions.)
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Prepare to present your discussion to the whole group.

# Sexini ya 3: Nkhakhuleto eka Giredi ya V

1 ya awara

Vadyondzi va fanele ku twisia nkoka wa tinomboro na vuxaka exikarhi ka tona va nga si endla tioparexini to fana na ku hlanganisa na ku susa. Va fanele ku tiva, tanihi xikombiso, xana nharhu ‘i tingani’; 3 yi ta emahlweni ka 4, endzhaku ka 2 na le xikarhi ka 2 na 4; naswona 3 i yikulu hi n’we eka 2 naswona i yitsongo hi n’we eka 4.

Ku tirha hi swihlayeri, vuhlalu bya swivumbeko, makhadi ya mathonsi, na ntlangu wo dludla kutani u tlhantlha swi nyika swivandlanene eka vadyondzi ku twisia leswaku tinomboro ti nga kota ku aka ti ya ehenhla kumbe ti tlhantliwa. Hi ndlela leyi, katsongotsongo va lemuka leswaku nomboro yihi kumbe yihi yi vumbiwa hi mikatsano yo hambanahambana yo tala ya tinomboro tin’wana. Tanihi xikombiso, nomboro ya 5 yi nga vumbiwa hi:

- ◆ 4 na 1
- ◆ 1 na 1 na 1 na 2
- ◆ 0 na 5.

Eka Giredi ya V, vadyondzi va valanga tindlela to hambanahambana ta ku aka na ku tlhantlha tinomboro, na ku hlanganisa na ku susa hi ku tirhisa swihlayeri.



## Nghingiriko wa 8

Hlaya vuxokoxoko lebyi nga eka tipheji ta 154–156 ta *Xiletelo xa Minongoti*.

Ehleketa hi mayelana na hilaha u tirhiseke hakona timatheriyali leti nyikiweke eka Nongonoko wa Matematiki ku pfuna vadyondzi ku twisia tioparexini ta tinomboro (mikhakhuleto) na vuxaka. Tirhisa timateriyali ku kombisa leswi.

1. Xana vadyondzi va valanga njhani nongoti wa nomboro eka Nongonoko wa Matematiki hi ku tirhisa timatheriyali leti nyikiweke?
  2. Xana i swivutiso swihi leswi u nga swi vutisaka leswi swi nga ta letela ku dyondza ka vona? (Kongomisa eka pheji ya 157 ya *Xiletelo xa Minongoti* ku kuma swikombiso swa swivutiso.)
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Lulamiselani ku andlala nkanelo wa n’wina eka ntlawa lowukulu.

## Word problems

Grade R learners need to orally solve word problems involving addition, subtraction, and equal sharing and grouping. They also need to explain their own reasoning and ways of solving different problems.

Give learners plenty of time to think and let them use real objects (e.g. counters, fingers, structure beads) to solve the problems and check their answers.

When presenting a word problem to learners, it is important to encourage them to:

- ◆ find a strategy to solve the problem
- ◆ explain how they solved the problem
- ◆ say why they think their answer is correct.

Common addition and subtraction contexts can be presented as word problems. The way that the word problem is structured, determines how easy or difficult it is to solve. It is important to use clear, simple language when presenting word problems.

In Workshop 6 we looked at the importance of using clear, simple language and asking appropriate questions during problem-solving activities. We also designed real-world problems in contexts that learners could relate to. In Activity 9, you will discuss problem solving in more detail.



### Activity 9

1. Look at the word problems below (page 26).
  - ◆ How would you solve each problem?
  - ◆ How do you think your Grade R learners would solve each problem?
  - ◆ Why are some of these problems more difficult than others?
  - ◆ Use the counters on your table to show how learners would solve the problems.

## **Swiphiqo swa marito**

Vadyondzi va le ka Giredi ya V va fanele ku ololoxa swiphiqo swa marito hi nomu leswi swi khumbaka ku hlanganisa, ku susa, na ku avelana ko ringana na ku tlawahata. Va tlhela va fanele ku hlamusela maehleketelelo na tindlela ta vona vini ta ku ololoxa swiphiqo swo hambanahambana.

Nyika vadyondzi nkarhi wo tala ku ehleketa kutani u va tshika va tirhisa michumu ya xiviri (xik. swihlayeri, tintiho, vuhlalu bya xivumbeko) ku ololoxa swiphiqo na ku kamba tinhlamulo ta vona.

Loko u andlala xiphiqo xa marito eka vadyondzi, i swa nkoka ku va khutaza ku:

- ◆ kuma qhinga ra ku ololoxa xiphiqo lexi
- ◆ hlamusela hilaha va ololoxeke xiphiqo lexi hakona
- ◆ vula leswaku hikwalahokayini va ehleketa leswaku nhlamulo ya vona yi lulamile.

Mivangu ya ku hlanganisa na ku susa ya ntoloveloyi nga andlariwa tanahi swiphiqo swa marito. Ndlela leyi xiphiqo xa marito xi vumbiweke hayona, yi kumisisa hilaha swi olovaka kumbe swi tikaka hakona ku xi ololoxa. I swa nkoka ku tirhisa ririmiro olova, leri nga erivaleni loko u ri karhi u andlala swiphiqo swa marito.

Eka Ndzetelavutivi wa 6, hi langutile nkoka wa ku tirhisa ririmiro olova, leri nga erivaleni na ku vutisa swivutiso leswi faneleke hi nkarhi wa mgingiriko ya ku ololoxa swiphiqo swa marito. Hi tlhele hi vumba swiphiqo swa vutomi bya xiviri leswi nga eka mivangu leyi vadyondzi va nga kotaka ku tixakelanisa na yona. Eka Nghingiriko wa 9, mi ta kanelu ku ololoxa swiphiqo hi vuenti swinene.



## **Nghingiriko wa 9**

1. Languta swiphiqo swa marito leswi nga laha hansi (pheji ya 27).
  - ◆ Xana xiphiqo xin'wana na xin'wana u nga xi ololoxa njhani?
  - ◆ Xana u ehleketa leswaku vadyondzi va wena va le ka Giredi ya V va ta xi ololoxa njhani xiphiqo xin'wana na xin'wana?
  - ◆ Hikwalahokayini swin'wana swa swiphiqo leswi swi tika swinene kutlula swin'wana?
  - ◆ Tirhisa swihlayeri leswi nga etafuleni ra wena ku komba hilaha vadyondzi va nga ololoxaka swiphiqo leswi hakona.

Combine	Separate
Laylah has 6 sweets. Malusi gives her 2 more. How many sweets does Laylah have altogether?	There are 8 sweets. Laylah eats 3 sweets. How many are left for Malusi?
Laylah has 5 sweets. How many more does she need to have 8?	Laylah has 8 sweets. Malusi eats some. There are 4 left. How many did Malusi eat?
Laylah had some sweets. Malusi gives her 2 more. Now she has 8. How many did Laylah start with?	Laylah had some sweets. She gave 6 sweets to Malusi. She has 2 sweets left. How many sweets did she start with?

2. Write a word problem that you could present to your Grade R learners for each of the following:

**Addition:  $4 + 5 =$**

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**Subtraction:  $7 - 3 =$**

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**Equal sharing without a remainder: 8 shared between 4 learners**

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Katsa	Hambanisa
Laylah u na 6 wa swiwitsi. Malusi u n'wi nyika 2 swin'wana. Xana Layalah u na swiwitsi swingani hinkwaswo ka swona?	Ku na 8 wa swiwitsi. Laylah u dya 3 wa swiwitsi. Xana i swingani swi nga sala swa Malusi?
Laylah u na 5 wa swiwitsi. Xana i swingani swo engetela a swi lavaka ku kota ku va na 8?	Laylah u na 8 wa swiwitsi. Malusi u dya swin'wana. Ku sala 4. Xana i swingani leswi Malusi a nga swi dya?
Laylah a ri na swiwitsi swin'wana. Malusi u n'wi nyika 2 swo engetela. Sweswi u na 8. Xana i swingani leswi Laylah a ri na swona ekusungulen?	Laylah a ri na swiwitsi swin'wana. U nyikile Malusi 6 wa swiwitsi. U sale na 2 wa swiwitsi. Xana i swiwitsi swingani leswi a ri na swona ekusungulen?

2. Tsala xiphiqo xa marito lexi u nga ta xi andlala eka vadyondzi va wena va le ka Giredi ya V xa xin'wana na xin'wana xa leswi landzelaka:

**Ku hlanganisa:  $4 + 5 =$**

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**Ku susa:  $7 - 3 =$**

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**Ku avela ku ri hava nsalo:  $8$  yi avelaniwa exikarhi ka  $4$  wa vadyondzi**

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**Equal sharing with a remainder: 5 shared between 2 learners**

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**Ku avela ku ri na nsalo: 5 yi avelaniwa exikarhi ka 2 wa vadyondzi**

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# Session 4: Planning for teaching

1½ hours

This workshop session prepares participants for implementing Term 3 Weeks 7–10. By this stage of the year, the teacher will have noticed distinct differences between learners' levels of progress. Term 3 builds on the content of Terms 1 and 2. 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 Term 4.



## Video 2

Watch the video of a teacher discussing how she deals with the range of learner competence in her class. Listen to what she says about planning and managing the difference between learners' ability levels and how she goes about her planning in order to support the learners' individual needs.

Note your ideas about differentiated teaching and learning in your classroom.

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## Activity 10

1. In your group, complete the planning templates for Term 3 Weeks 7–10 (Appendix A).
2. Your group will present an overview of your planning discussion to the other groups. Note the main points of your discussion on flipchart paper. Include answers to the following questions:
  - ◆ What challenges do you anticipate in implementing Weeks 7–10?
  - ◆ How can you solve each of these challenges in order to achieve successful implementation?
  - ◆ 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?

## **Sexini ya 4: Nkunguhato wa ku dyondzisa**

**1½ ya tiawara**

Ndzetelavutivi lowu wu lulamisela vatekaxiave eka ku tirhisa Mavhiki ya 7–10 ya Kotara ya 3. Hi nkarhi lowu wa lembe, mudyondzisi u ta va a lemukile ku hambana loku nga erivaleni exikarhi ka tilevhele ta vadyondzi ta ku ya emahlweni. Kotara ya 3 yi aka ehenhla ka vundzeni bya Kotara ya 1 na 2. Vadyondzi van'wana va ta va va lunghekerile leswi, loko van'wana va ta va ha lava nseketelo na ku tiyisiwa swinene ku kota ku ya emahlweni. I swa nkoka ku kunguhata na ku lulamisela ku hambana loku eka vuswikoti bya mudyondzi ku tiyisia leswaku vundzeni na swikili hinkwaswo swa Matematiki wa Giredi ya V swa angarheliwa, naswona vadyondzi va lulamele kahle Kotara ya 4.



### **Vhidiyo ya 2**

Hlalelani vhidiyo ya mudyondzisi a ri karhi a kanelia hilaha a tirhanaka hakona na vunavi bya vuswikoti bya vadyondzi etlilasini ya yena. Yingiselani leswi a swi vulaka hi mayelana na ku lawula ku hambana exikarhi ka tilevhele ta vuswikoti na hilaha a endlaka hakona hi mayelana na nkunguhato wa yena hi xikongomelo xa ku seketela swilaveko swa vadyondzi hi un'weun'we.

Tsala miehleketo ya wena hi mayelana na madyondziselo na madyondzelo lama hambaranisweke ekamareni ro dyondzela ra wena.

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### **Nghingiriko wa 10**

1. Entlaweni wa n'wina, hetisani tithempuleti ta nkunguhato ta Mavhiki ya 7–10 ya Kotara ya 3 (Xiengetelwa xa A).
2. Ntlawa wa n'wina wu ta andlala nkatsakanyo wa nkanelo wa n'wina wa nkunguhato eka mitlawa leyin'wana. Tsalani timhakakulu ta nkanelo wa n'wina eka phepha ra chati yo pfula. Katsani tinhlamulo ta swivutiso leswi landzelaka:
  - ◆ Xana i mitlhontlho yihi leyi mi yi langutelaka eka ku simeka Mavhiki ya 7–10?
  - ◆ Xana u nga wu ololoxa njhani wun'wana na wun'wana wa mitlhontlho leyi hi xikongomelo xa ku fikelela masimekelo lama humelalaka?
  - ◆ Xana nghingiriko lowu leteriwaka hi mudyondzisi wu nyika njhani swivandlanene swa mudyondzisi ku kambela na ku seketela vadyondzi?
  - ◆ Xana migingiriko ya mitlawa leyitsongo leyi tshunxekeke ya pfumelela vutitoloveti byo enela bya vutivi byintshwa na swikili swintshwa?

# Closing activities

30 minutes



## Activity 11

**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.

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Share your reflections with the large group.



### Take back to school task

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 Term 3: Exemplar Record of Continuous Assessments (from *Activity Guide: Term 3*) to the next workshop.

## Evaluation

Complete the Evaluation Form.

# Migingiriko yo pfala

30 wa timinete



## Nghingiriko wa 11

**Vuehleketisisi bya ndzetelavutivi:** Teka timinete tingaritingani ku ehleketisisa hi mayelana na siku leri. Pfula *Buku ya Ntirho ya Vatekaxiave* ku titsundzuxa hi leswi swi angarheliweke. Tsala miehleketo ya wena.

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Avelanani vuehleketisisi bya n'wina na ntlawa lowukulu.



### Xintirhwana xo tlhelela na xona exikolweni

1. Tirhisa *Xiletelo xa Migingiriko: Kotara ya 3* ku kunguhata na ku tirhisa Mavhiki ya 7–10 ya Kotara ya 3 ya Nongonoko wa Matematiki.
2. Endla tinotsi ta leswi swi tirheke kahle swinene, leswi swi nga tirhangiki kahle swinene na hilaha u ololoxeke hakona mitlhontlho yihi kumbe yihi eka matirhiselo ya wena ya Mavhiki ya 7–10 ya Kotara ya 3.
3. Tsala swibumabumelo ebukwini leyi u yi tirhisaka ku landzelerisa ku ya emahlweni ka mudyondzi un'wana na un'wana (buku ya nxiyaxiyo wa vadyondzi). Tirhisa nxaxamelo wo xiyaxiya wa '**Kamba leswaku vadyondzi va kota ku**' (bokisi ra mahlo) hi nkarhi wa wun'wana na wun'wana wa migingiriko leyi leteriwaka hi mudyondzisi ku letela mixiyaxiyo na swibumabumelo swa wena.
4. Tana na buku ya wena ya nxiyaxiyo wa vadyondzi na tinotsi leti u ti endleke loko u ri karhi u ehleketisisa hi mayelana na madyondziselo ya siku rin'wana na rin'wana eka ndzetelavutivi lowu landzelaka.
5. Tana na kopi ya Kotara ya 3: Rhekodo ya Xikombiso ya Makambelelo lama Yaka Emahlweni (kusuka eka *Xiletelo xa Migingiriko: Kotara ya 3*) eka ndzetelavutivi lowu landzelaka.

### Nkambelo

Tatisa Fomo leya Nkambelo.

## APPENDIX A: TERM 3 WEEKLY PLANNING TEMPLATE

### Term 3: Activity Plan: Week \_\_\_\_

<b>CONTENT AREA:</b>			
<b>TOPIC:</b>			
<b>INTRODUCE NEW KNOWLEDGE:</b>			
<b>PRACTISE:</b>			
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			

## XIENGETELWA XA A: THEMPULETI YA NKUNGUHATO WA VHIKI NA VHIKI WA KOTARA YA 3

### Kotara ya 3: Kungu ra Mgingiriko: Vhiki ra \_\_\_\_

XIYENGE XA VUNDZENI:				
NHLOKOMHAKA:				
TIVISA VUTIVI BYINTSHWA:				
TITOLOVETI:				
Mgingiriko ya tilasi hinkwayo		Nghingiriko lowu leteriwaka hi mudyondzisi	Mgingiriko ya le ka xitichi xo tirhela (mgingiriko ya mitlawa leyitsongo leyi tshunxekeke)	
Siku ra 1			Nghingiriko wa 1	
Siku ra 2			Nghingiriko wa 2	
Siku ra 3			Nghingiriko wa 3	
Siku ra 4			Nghingiriko wa 4	
Siku ra 5				

**Term 3: Activity Plan: Week \_\_\_\_**

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

**Kotara ya 3: Kungu ra Mizingiriko: Vhiki ra \_\_\_\_**

<b>XIYENGE XA VUNDZENI:</b>				
<b>NHLOKOMHAKA:</b>				
<b>TIVISA VUTIVI BYINTSHWA:</b>				
<b>TITOLOVETI:</b>				
<b>Mizingiriko ya tilasi hinkwayo</b>		<b>Nghingiriko lowu leteriwaka hi mudyondzisi</b>	<b>Mizingiriko ya le ka xitichi xo tirhela (mizingiriko ya mitlawa leyitsongo leyi tshunxekeke)</b>	
Siku ra 1			Nghingiriko wa 1	
Siku ra 2			Nghingiriko wa 2	
Siku ra 3			Nghingiriko wa 3	
Siku ra 4			Nghingiriko wa 4	
Siku ra 5				

**Term 3: Activity Plan: Week \_\_\_\_**

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

**Kotara ya 3: Kungu ra Migungiriko: Vhiki ra \_\_\_\_**

<b>XIYENGE XA VUNDZENI:</b>				
<b>NHLOKOMHAKA:</b>				
<b>TIVISA VUTIVI BYINTSHWA:</b>				
<b>TITOLOVETI:</b>				
<b>Migungiriko ya tilasi hinkwayo</b>		<b>Nghingiriko lowu leteriwaka hi mudyondzisi</b>	<b>Migungiriko ya le ka xitichi xo tirhela (migungiriko ya mitlawa leyitsongo leyi tshunxekeke)</b>	
Siku ra 1			Nghingiriko wa 1	
Siku ra 2			Nghingiriko wa 2	
Siku ra 3			Nghingiriko wa 3	
Siku ra 4			Nghingiriko wa 4	
Siku ra 5				

**Term 3: Activity Plan: Week \_\_\_\_**

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

**Kotara ya 3: Kungu ra Mizingiriko: Vhiki ra \_\_\_\_**

<b>XIYENGE XA VUNDZENI:</b>				
<b>NHLOKOMHAKA:</b>				
<b>TIVISA VUTIVI BYINTSHWA:</b>				
<b>TITOLOVETI:</b>				
<b>Mizingiriko ya tlilasi hinkwayo</b>		<b>Nghingiriko lowu leteriwaka hi mudyondzisi</b>	<b>Mizingiriko ya le ka xitichi xo tirhela (mizingiriko ya mitlawa leyitsongo leyi tshunxekeke)</b>	
Siku ra 1			Nghingiriko wa 1	
Siku ra 2			Nghingiriko wa 2	
Siku ra 3			Nghingiriko wa 3	
Siku ra 4			Nghingiriko wa 4	
Siku ra 5				

## **Workshop 9 Evaluation Form**

1. Did the workshop meet your expectations?

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

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

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

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

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## Fomo ya Nkambelo ya Ndzetelavutivi wa 9

1. Xana ndzetelavutivi lowu wu fikelerile swilanguteriwa swa wena?

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2. Xana u dyondzile yini eka ndzetelavutivi lowu wu ku pfunek swinene?

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3. Xana a ku ri na xilo xihi kumbe xihi lexi u nga xi tsakelangiki kumbe u veke na ku tikeriwa hi ku xi twisisa?

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4. Xana u ta swi tirhisa njhani leswi u swi dyondzeke ekamareni ra wena ro dyondzela ra Giredi ya V?

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5. Xana u na swinginganyeto swihi kumbe swihi swa ku antswisa miletelavutivi yo yisa emahlweni?

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