



**GAUTENG PROVINCE**  
EDUCATION  
REPUBLIC OF SOUTH AFRICA

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GROWING GAUTENG TOGETHER

Setswana/English

# **Lenaneotokafatso la Dipalo tsa Mophato R Grade R Mathematics Improvement Programme**



**Thutano 1 • Workshop 1  
Bukatiro ya Batsayakarolo • 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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Porojeke ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R ke itshimololelo ya **Lefapha la Thuto la Gauteng (Gauteng Department of Education)** mmogo le badirisani ba bona ba botlhokwa, **Gauteng Education Development Trust**.

Tlhabololo le tlhagiso ya didiriswa tsa katiso le phaposiborutelo ya Porojeke ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R e kgontshitswe ke tshegetso ya **United States Agency for International Development** le **Zenex Foundation** ka matlole.

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**Schools Development Unit (SDU)** kwa **University of Cape Town (UCT)** ke badirisani ba setegeniki ba dipalo go Porojeke ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R. SDU ke yuniti e e ka fa tlase ga School of Education sa UCT e e totileng tokafatso ya boporofešenale jwa barutabana mo Dipalong, Bonetetshing, Kitsokwalo/Puo le Dikgonotshelo go simolola ka Mophato R go fitlha ka Mophato 12. SDU e neelana ka thuto ka boithutedi jwa borutabana le dithutokhutshwe tse di dumelletsweng tsa UCT, tiro ya kwa sekolong, tlhagiso ya dibukana le dipatlisiso go tshegetsa go ruta le go ithuta mo makaelong otlhe a Aforikaborwa.

## DITEBOGO

Ditebogo di lebisiwa segolobogolo go:

- Bathankedi ba Lefapha la Thuto la Gauteng mo Lephateng la Kharikhulamo, Bokaedi jwa Thuto ya Barutabana le Thuto e e Kgethegileng ka ntlha ya seabe sa bona go dirisa dibukana tseno tsa rona.
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- Setlhophwa se se kwalang *R-Maths*: Badiri ba SDU le bagakolodi.



Porojeke ya Lenaneotokafatso la Dipalo tsa Mophato R le tserwe go tswa mo *R-Maths*, e phasaladitswe Iwantlha ka 2017 ke Schools Development Unit, ya University of Cape Town. Tetlokhopi ya *R-Maths* e tshwerwe ke University of Cape Town.

Porojeke ya Lenaneotokafatso la Dipalo tsa Mophato R e neetswe laesense ka fa tlase ga Creative Commons Attribution 4.0 International License [Attribution-NonCommercial-ShareAlike]



Laesense e e letlelela go phatlalatsa, go tswakanya, go fetola, le go agelela mo godimo ga didiriswa ka mofuta mongwe le mongwe wa tiriso kgotsa tsela nngwe le nngwe fela ya go sa dire letseno, le fela fa e le gore o kaya motlhami wa tiro. Fa o tswakanya, o fetola kgotsa go agelela mo godimo ga didiriswa, o tshwanetse go batla laesense e e tsamaelanang le se o se dirileng. Go bona maemo a laesense eno ka botlalo, etela  
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# Overview

## Purpose

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

Participants will receive information on the components and guiding principles of teaching mathematics in Grade R. They will reflect on and discuss these within the context of their own planning and teaching. Participants will also review the Curriculum and Assessment Policy Statement (CAPS) Grade R Mathematics Content Areas. They will plan the daily programme Mathematics focus time for the first two weeks of Term 1. Throughout the workshop they will reflect on the guiding principles that inform teaching and learning.

\*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

Mathematics is the formal subject name, but in this *Participant's Workbook* and during our discussions we will refer to it as 'maths'. (Read more about this on page 10 of the *Concept Guide*.)

## Learning outcomes

- ◆ To become familiar with the Maths Programme and how it supports and extends the content of CAPS Grade R Mathematics
- ◆ To explore the components of the Maths Programme
- ◆ To understand the teaching principles presented in the Maths Programme
- ◆ To plan a Term 1 week based on the five-group teaching model
- ◆ To engage with the Maths Programme content of Term 1 Weeks 1–2 (Numbers, Operations and Relationships)

## Workshop content

- |   |           |
|---|-----------|
| ◆ Session 1: Orientation to the Maths Programme         | (2 hours) |
| TEA   |           |
| ◆ Session 2: Numbers, Operations and Relationships      | (2 hours) |
| LUNCH   |           |
| ◆ Session 3: Implementing the five-group teaching model | (2 hours) |

# **Thadiso**

## **Maitlhomo**

Eno ke thutano ya ntlha ya dithutano di le lesomepedi tsa Lenaneotokafatso la Dipalo tsa Mophato R (Lenaneo la Dipalo), le e leng karolo ya Porojeke ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R la Lefapha la Thuto la Gauteng (GDE).

Batsayakarolo ba tlaa amogela tshedimosetso ka ga dikarolwana le melawana e e kaelang ya go ruta dipalo mo Mophatong wa R. Ba tlaa akanya ka ga tsona le go di buisanelo mo bokaelong jwa ipaakanyo ya bona le mo go ruteng ga bona. Batsayakarolo gape ba tlaa tlhabolola Dikaroloteng tsa Dipalo tsa Mophato wa R mo Pegelong ya Pholisi ya Kharikhulamo le Tlhatlhobo (PPKT). Ba tlaa rulaganya nako e e tobilweng ya Lenaneo la Letsatsi le letsatsi la Dipalo mo dibekeng tse pedi tsa ntlha tsa Kgweditharo ya 1. Mo thutanong, ba tlaa akanya ka ga melawana e e kaelang e e leng yona e kgontshang go ruta le go ithuta.

\* Dikaroloteng tsa Dipalo tsa Mophato wa R di tserwe go tswa mo *Pegelong ya Pholisi ya Kharikhulamo le Tlhatlhobo (PPKT): Dipalo tsa Mophato wa R (Lokwalo lwa Bofelo)*, 2011, Lefapha la Thutotheo, Aforika Borwa.

## **Dipoelothuto**

- ◆ Go tlwaela Lenaneo la Dipalo le gore le tshegetsa jang diteng tsa PPKT ya Dipalo tsa Mophato wa R le go di atolosa
- ◆ Go lekeletsa dikarolwana tsa Lenaneo la Dipalo
- ◆ Go tlhaloganya melawana ya go ruta e e tlhagisiwang mo Lenaneong la Dipalo
- ◆ Go rulaganya beke ya Kgweditharo ya 1 e e ikaegileng ka mmotlolo wa go ruta ka setlhophpha sa botlhano
- ◆ Go mekamekana le diteng tsa Lenaneo la Dipalo la Kgweditharo 1 Dibeke 1–2 (Dinomore, Ditiro le Dikamano)

## **Diteng tsa thutano**

- ◆ Karolo 1: Go tsamaisiwa tshepedi mo Lenaneong la Dipalo (Diura di le 2)  
TEE
- ◆ Karolo 2: Dinomore, Ditiro le Dikamano (Diura di le 2)  
DIJOTSHEGARE
- ◆ Karolo 3: Go diragatsa mmotlolo wa go ruta ka setlhophpha sa botlhano (Diura di le 2)

## **House rules**

- ◆ Be punctual.
- ◆ Turn off your cellphone during sessions.
- ◆ Give everyone a chance to participate.
- ◆ Listen to each other's ideas.

## **Melawana ya tsamaiso**

- ◆ Tsenang ka nako.
- ◆ Tima selefounu ya gago fa re le mo dithutanong.
- ◆ Neela mongwe le mongwe tšhono ya go tsaya karolo.
- ◆ Reetsa dikakanyo tsa ba bangwe.

# Session 1: Orientation to the Maths Programme

2 hours

## Registration

### Welcome and house rules (10 minutes)

Welcome to the first of twelve maths workshops for the Gauteng Department of Education (GDE) Grade R Mathematics and Language Improvement Project.

Let's start with an introduction to the presenters and agree on a set of house rules.

### Sharing teaching experiences (15 minutes)



#### Activity 2

1. Take some time to reflect on your experience of teaching Grade R, especially teaching maths in Grade R. Think about your training and how it prepared you for maths teaching. Also try to identify your strengths and weaknesses in maths.
- 
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- 

2. Share some of your good experiences and bad experiences with a partner.
3. Choose one person from your group to capture the thoughts that everyone shared.

# Karolo 1: Go tsamaisiwa tshepedi mo Lenaneong la Dipalo

Diura di le 2

## Ikwadiso

### Kamogelo le melawana ya tsamaiso (Metsotso e le 10)

O amoetswe mo thutanong ya ntlha ya dithutano di le lesomepedi tsa dipalo tsa Projekte ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R ya Lefapha la Thuto la Gauteng (GDE).

A re simolole ka go itsise batlhagisi le go dumelana ka ga melawana ya tsamaiso.

### Go arogana maitemogelo a go ruta (Metsotso e le 15)



#### Tirwana 2

1. Tsaya nako go akanya ka ga maitemogelo a gago a go ruta Mophato wa R, segolobogolo go ruta dipalo mo Mophatong wa R. Akanya ka ga go katisiwa ga gago le gore go go tlhokoditse jang go ruta dipalo. Leka gape go tlhaola bokgoni jwa gago mmogo le makoa mo dipalong.
- 
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- 
- 

2. Arogana le molekane wa gago maitemogelo mangwe a gago a a jesang di welang le a a seng monate.
3. Tlhophpha motho a le mongwe mo sethopheng sa gago go kwala dikakanyo tse mongwe le mongwe o di aroganang le setlhophpha.

### Why a Maths Programme for Grade R?

Many South African primary school learners underperform in Language and Mathematics. A high percentage of learners fail to achieve even the minimum expected standards in these core subjects. There has been slow progress in the improvement of educational outcomes and in narrowing the achievement gap between learners from different backgrounds. The reasons for this are complex, go beyond the classroom and are affected by children's development and well-being from birth.

One of the critical issues around preschool access and attendance, as well as infrastructure and school management in South Africa, has been the fundamental questions about what and how children are learning. In order for all children to have a better chance of fulfilling their potential in Mathematics, the focus must broaden to include maths development in Grade R and, crucially, to provide Grade R teachers and practitioners with the knowledge and skills needed to support young children's maths learning.

The GDE identified Early Childhood Development as its Strategic Goal 1 and one of its key goals is to improve Home Language and Mathematics learning in Grade R. Through the Grade R Mathematics and Language Improvement Programme, the GDE is striving to improve performance in Grade R and prepare learners for Grade 1.

We believe that the Maths Programme will make an important contribution to the implementation of CAPS and that it will enhance the existing learning opportunities for all learners in Grade R so that they develop to their full potential.

### What is the Grade R Maths Programme?

The Maths Programme focuses on teaching and learning one maths concept or topic at a time. The main focus of each week is on one CAPS Content Area. New knowledge is introduced through:

- ◆ whole class activities
- ◆ small group activities: teacher-guided activities and independent (side) activities
- ◆ free choice activities.

**Goreng go na le Lenaneo la Dipalo tsa Mophato wa R?**

Bontsi jwa barutwana ba dikolopotlana tsa Aforikaborwa ga ba dire sentle mo Puong le mo Dipalong. Phesente e kgolwane ya barutwana e retelelw a ke go fitlhelela le maemo a a kwa tlase tota a a soloftsweng mo dirutweng tseno tsa botlhokwa. Go ntse go na le tswelelopele e e bonya tota mo tokafalong ya dipoloethuto le go fokotsa mokhino wa phitlhelelo magareng ga barutwana go tswa mo lemoramong le le farologaneng. Mabaka a seno a matswakabele, mme e bile ga se a phaposiborutelo fela mme gape a amiwa ke kgolo ya bana le go tlhogola ga bona go tswa tsalong.

E nngwe ya merero ya bothhokwa mo go fitlheleleng thuto ya pele ga sekolo mmogo le mafaratlhatlha le bolaodi jwa dikolo mo Aforikaborwa e nnile dipotso tsa motheo ka ga se bana ba se ithutang le gore ba ithuta jang. Gore bana bothhe ba nne le tshono e e botoka ya go dirisa bokgoni jwa bona mo Dipalong, se se totilweng se tshwanetse go atoloswa go akaretsa kgolo ya dipalo mo Mophatong wa R le go tlamela barutabana le badiri ba Mophato wa R ka kitso le dikgono tse di tlhogalang go tshegetsa go ithuta ga bana ba banny.

GDE e tlhaotse Kgodisopele ya Bana jaaka Phitlhelelo ya Togamaano 1 mme gape e nngwe ya diphitlhelelo tsa yona tsa botlhokwa ke go tokafatsa go ithuta Puogae le Dipalo mo Mophatong wa R. Ka Projekte ya Lenaneotokafatso la Dipalo le Puo tsa Mophato wa R, GDE e leka thata go tokafatsa phitlhelelo mo Mophatong wa R le go katisetsa barutwana Mophato wa 1.

Re dumela gore Lenaneo la Dipalo le tlaa tshwaela thata mo tiragatsong ya PPKT le gore le tlaa tiisa ditshono tsa go ithuta tse di setseng di le teng tsa barutwana bothhe mo Mophatong wa R gore ba kgone go fitlhelela bokgoni jo bo feletseng jwa bona.

**Lenaneo la Dipalo tsa Mophato wa R ke eng?**

Lenaneo la Dipalo le totile go ithuta le go ruta motho mogopolo kgotsa setlhogo sa dipalo ka nako e le nngwe. Beke e nngwe le e nngwe e totile segolobogolo Karoloteng ya PPKT. Kitso e ntshwa e tlhagisiwa ka:

- ◆ ditirwana tsa phaposiborutelo yothle
- ◆ ditirwana tsa ditlhophha tse dinnye: ditirwana tse di kaelwang ke morutabana le ditirwana (tsedi kwa thoko) tsa boikemedi
- ◆ ditirwana tsa go itlhophela ka tokologo.

**The Maths Programme:**

- ◆ supports, extends and reinforces the content of CAPS Grade R Mathematics. It does not replace CAPS and it assumes that teachers have some prior knowledge and understanding of CAPS Grade R Mathematics.
- ◆ promotes focus time so that learners can practise newly acquired skills and knowledge, and embeds practise opportunities in planned maths activities and experiences.
- ◆ gives teachers a detailed guide that supports teaching and learning.
- ◆ is guided by eight principles that contribute to successful teaching and learning.
- ◆ supports teachers in making the link between Grade R Mathematics concepts and later mathematical competence.
- ◆ emphasises the weekly observation of learners as a tool for gathering information about each child to inform planning and assessment.

Refer to page 10 of the *Concept Guide* to read more about the Grade R Mathematics Improvement Programme.

Read more about the Maths Programme's guiding principles on pages 14–73 of the *Concept Guide*.

Lenaneo la Dipalo le:

- ◆ tshegetsa, atolosa le go gatelela diteng tsa Dipalo tsa Mophato wa R tsa PPKT.  
Ga le emisetse PPKT mme e bile e dumela gore barutabana ba na le kitsopele le go tlhaloganya Dipalo tsa Mophato wa R tsa PPKT.
- ◆ rotloetsa nako e e totlweng gore barutwana ba itlwaetse dikgono tse dintshwa tse ba di fitlheletseng le kitso, le go agelela ditshono tsa go ikatisa mo ditirwaneng tse di ipaakaneyditsweng tsa dipalo le maitemogelo.
- ◆ neela barutwana kaedi e e nang le dintlha tsotlhe tse di tshegetsang go ruta le go ithuta.
- ◆ kaelwa ke melawana e le robedi e e nang le seabe mo go ruteng le go ithuteng ka katlego.
- ◆ tshegetsa barutabana mo go direng gore go nne le kgolagano magareng ga megopolu ya Dipalo tsa Mophato wa R le bokgoni jwa dipalo kgabagare.
- ◆ gatelela tebelelo ya beke le beke ya barutwana jaaka sediriswa sa go kokoanya tshedimosetso ka ga ngwana yo mongwe le yo mongwe go nna le tshusumetso mo go ipaakanyeng le mo tlhatlhobong.

Lebelela tsebe 13 mo *Kaeding ya Mogopolo* go buisa go le gontsi ka ga Lenaneotokafatso la Dipalo tsa Mophato wa R.

Buisa go le gontsi ka ga melawana e e kaelang ya Lenaneo la Dipalo mo ditsebeng 14–73 tsa *Kaedi ya Mogopolo*.

## **Time allocation for Mathematics in Grade R** (10 minutes)

CAPS suggests that the instructional time for Mathematics in Grade R should be 23 hours per week. However, CAPS does not provide a weighting or a breakdown of the time that should be spent on each Content Area for each term.

## **Maths in the Grade R daily programme** (20 minutes)

The daily programme in Grade R is not a timetable like the ones used in higher grades.

In Grade R the day is organised around the developmental needs of the learners. The day begins with time to talk and sing and ends with rest and stories. During the day, teachers plan activities for Home Language, Life Skills and Mathematics knowledge and understanding. During play and interaction with the teacher and other learners there are many opportunities for the integration of new skills and time to practise what has been learnt.

The Maths Programme suggests a way of organising the daily programme with focus time for Home Language, Life Skills and Mathematics.

Refer to pages 82–93 of the *Concept Guide* to read more about organising your classroom for the daily Mathematics focus session.

## **Nako e e beetsweng Dipalo mo Mophatong wa R (Metsotso e le 10)**

PPKT e tshikhinya gore nako ya go ruta Dipalo mo Mophatong wa R e tshwanetse go nna diura di le 23 mo bekeng. Le fa go ntse jalo, PPKT ga e tlamele ka bokete kgotsa karogano ya nako e e tshwanetseng ya tsewa go mekamekana le karoloteng ya kgweditharo e nngwe le e nngwe.

## **Dipalo mo lenaneo la letsatsi le letsatsi la**

### **Mophato wa R (metsotso e le 20)**

Lenaneo la letsatsi le letsatsi mo Mophatong wa R ga se papetla ya nako jaaka tse di dirisiwang mo mephatong e e kwa godingwana.

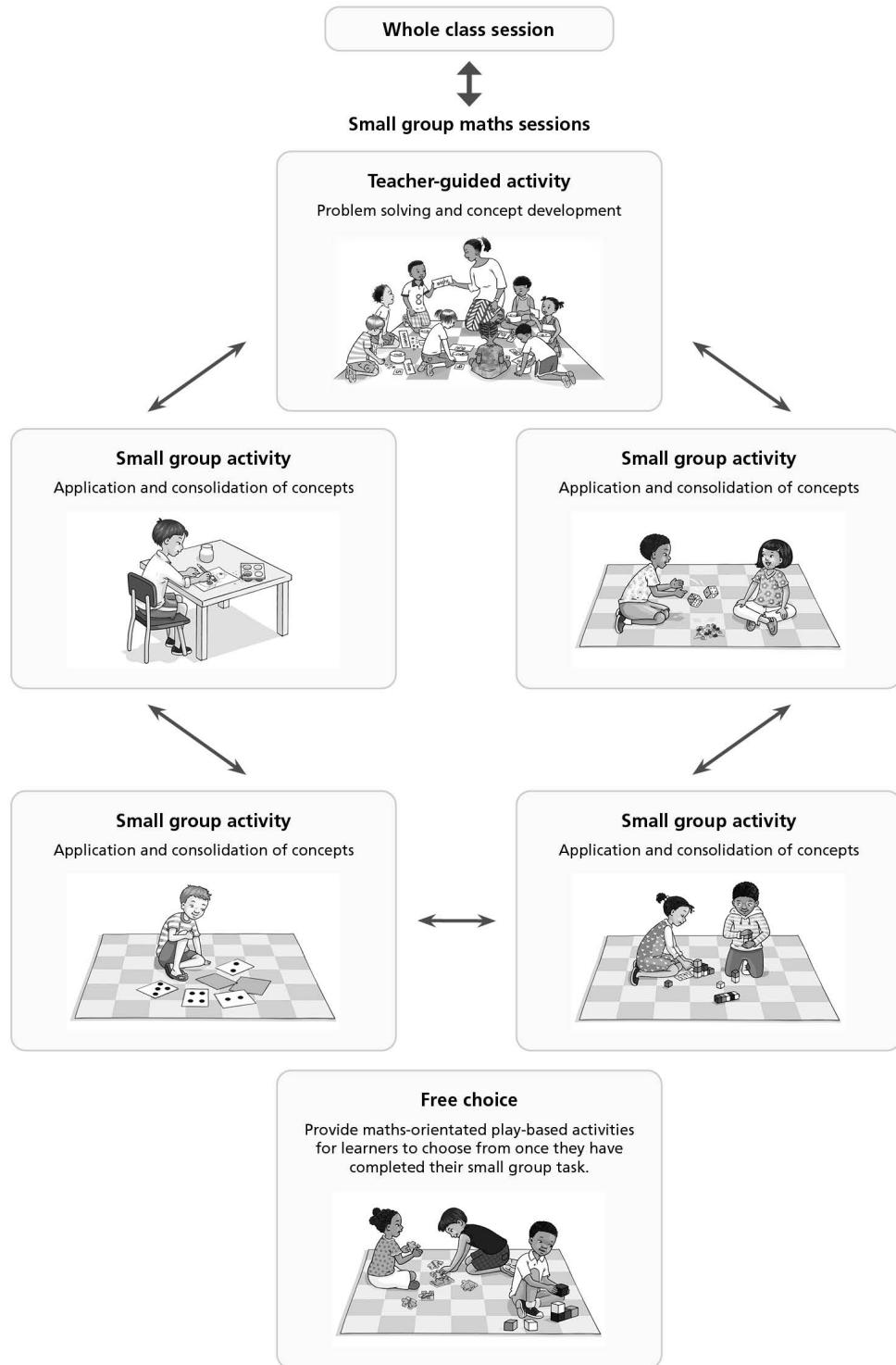
Mo Mophatong wa R, letsatsi le rulagantse go lebilwe ditlhokego tsa barutwana tsa kgolo. Letsatsi le simologa ka nako ya go bua le go opela mme le wediwe ka go ikhutsa le dikanelo. Mo tsamaong ya letsatsi, barutabana ba rulaganyetsa Puogae, Dikgono tsa Botshelo le Kitso le go tlhaloganya Dipalo ditirwana. Ka nako ya go tshameka le go buisana le morutabana le barutwana ba bangwe go na le ditšhono tse dintsi tsa go tsenyeletsa dikgono tse dintšhwa le nako ya go ikatisetsa se se ntseng se ithutiwa.

Lenaneo la Dipalo le tshikhinya tsela ya go rulaganya lenaneo la letsatsi le letsatsi le le nang le nako e e totileng Puogae, Dikgono tsa Botshelo le Dipalo.

Lebelela ditsebe 82–93 tsa *Kaedi ya Mogopolo* go buisa go le gontsi ka ga go rulaganyetsa kamuso e e totileng Dipalo letsatsi le letsatsi phaposiborutelo ya gago.

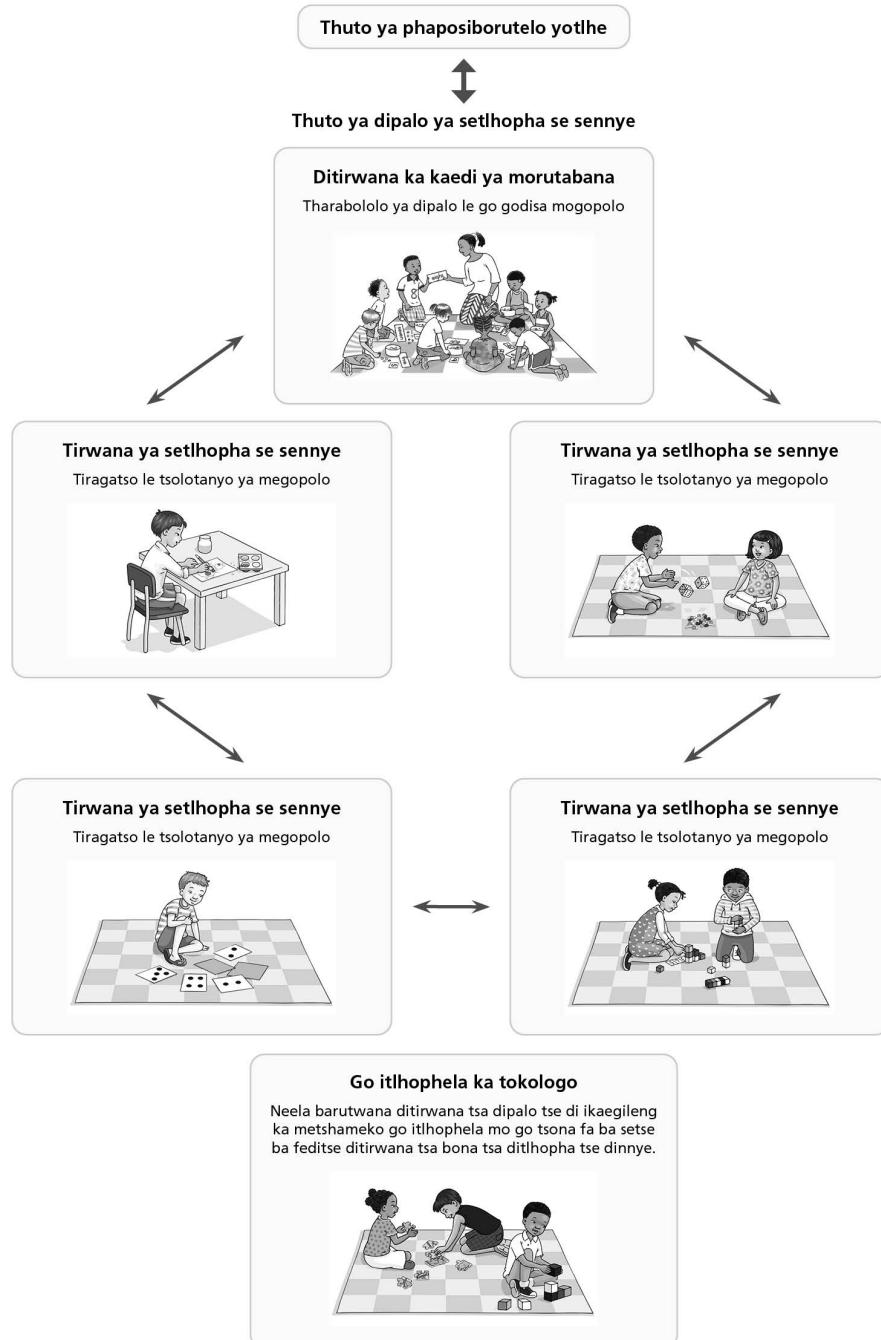
## Daily Mathematics focus time

The Language training introduced you to a two-week teaching and learning cycle. The Maths Programme also follows a structured approach to organising the class for the Mathematics focus time. The Maths Programme's teaching and learning cycle is based on five small group activities that are rotated during one week. The lessons begin on a Monday and end on a Friday.



**Nako e e totilweng ya Dipalo letsatsi le letsatsi**

Katiso ya puo e go tlhagiseditse tsheko ya dibeke tse pedi ya go ruta le go ithuta. Lenaneo la Dipalo le lona le latela mokgwa o o rulaganeng go rulaganyetsa phaposiborutelo nako e etotlweng ya Dipalo. Tsheko ya go ruta le go ithuta ya Lenaneo la Dipalo e ikaegile ka ditirwana tsa ditlhophapha tse dinnye di le tlhano tse di refosanngwang mo bekeng e le nngwe. Kamuso e simologa ka Mosupologo mme e khutle ka Labotlhano.



# Session 2: Numbers, Operations and Relationships

2 hours

## Term 1–4 content overview (CAPS) (45 minutes)

The Maths Programme is aligned to and extends the content of the five Mathematics Content Areas of CAPS. The table on pages 114–137 of the *Concept Guide* provides a content overview of the maths to be taught in Grade R. It also shows what content is to be taught each term.

- ◆ The text in blue is the content from the CAPS for Grade R Mathematics.
- ◆ The text in black has been added to extend and build on CAPS.
- ◆ The topics are sequenced to show a developmental progression from one topic to the next.

Refer to pages 110–113 of the *Concept Guide* and read 1.1, 1.2 and 1.3 on pages 114–117. After reading numbers 1.1, 1.2 and 1.3, complete Activities 7 and 8.



### Activity 7

Look through the Term 1–4 content overview for the Content Area: Numbers, Operations and Relationships, in the *Concept Guide* and in the CAPS document. In your group, discuss:

1. What does the Maths Programme add to the content of CAPS?

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2. What counting concepts are covered in Numbers, Operations and Relationships in Term 1?

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## Karolo 2: Dinomore, Ditiro le Dikamano Diura di le 2

### Kgweditharo 1–4 thadiso ya diteng (PPKT) (Metsotso e le 45)

Lenaneo la Dipalo le nyalelane le go atolosa diteng tsa Dikaroloteng tsa Dipalo tsa PPKT. Papetla e e mo ditsebeng 114–137 tsa *Kaedi ya Mogopolو* e tlamela ka thadiso ya diteng tsa dipalo tse di tshwanetseng go rutiwa mo Mophatong wa R. Gape e bontsha gore ke diteng dife tse di tshwanetseng go rutiwa kgweditharo e nngwe le e nngwe.

- ◆ Mokwalo wa mmala o mopududu ke diteng tse di tswang mo PPKT ya Dipalo tsa Mophato wa R.
- ◆ Mokwalo wa mmala o montsho o tsentswe go atolosa le go agelela mo PPKT.
- ◆ Dithhogo di latelana go supa tswelelelopele e e golang go tswa mo setlhogong se sengwe go ya go se sengwe.

Lebelela ditsebe 110–113 tsa *Kaedi ya Mogopolو* mme o buise 1.1, 1.2 le 1.3 mo ditsebeng 114–117. Morago ga go buisa dinomore 1.1, 1.2 le 1.3, dira ditirwana 7 le 8.



### Tirwana 7

Lebelela thadiso ya diteng mo Kgweditharong 1–4 fa o batla Karoloteng: Dinomore, Ditiro le Dikamano, mo *Kaeding ya Mogopolو* le mo tokomaneng ya PPKT. Mo setlhopheng sa gago, buisanang ka ga:

1. Lenaneo la Dipalo le tlaleleletsa eng mo diteng tsa PPKT?

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2. Ke megopolو efe ya go bala e e lebelelwang mo Nomoreng, Ditirong le Dikamanong mo Kgweditharo 1?

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## **Important concepts in Numbers, Operations and Relationships**

**(1½ hours)**

### **Counting**

#### **Oral counting (rhythmic, rote or acoustic counting)**

Oral counting involves a learner memorising the names and counting order of numbers, often in a rhyme or song.

In Grade R learners learn the correct order of number names and repeat the sequence daily. The purpose of counting out loud is to help learners understand that when we count aloud there is a set order for the numbers: beginning at one, then two, three, four, etc. Initially learners do not fully understand the meaning of the number names and might skip numbers in a counting sequence. Reciting a rhyme or series of numbers orally means repeating the number names from memory. Even when learners count in steps of two, five and ten they are using their knowledge of this number order. Memorising number names and repeating them in the correct counting order does not necessarily mean that learners can count. This is different from counting to find out 'how much'.

Arrange yourselves into small groups of five and find an open space in the training room for the next activity.



### **Activity 3**

1. In your small groups, say the rhyme, *One, two, three, four, five*, with actions.

#### **One, two, three, four, five**

One, two, three, four, five  
Once I caught a fish alive.  
'Why did you let it go?'  
Because it bit my finger so.  
One, two, three, four, five  
Then I caught a frog alive.  
'What did you do with that?'  
I said hello and put it back.

## **Megopolو ya botlhokwa mo Dinomoreng, Ditirong le Dikamanong**

(Diura di le 1¼)

### **Go bala**

**Go balela kwa godimo (ka moribo, ka tatelano kgotsa palelogodimo)**

Go balela kwa godimo go akaretsa go tshwarelela maina le thulaganyo ya palo ya dinomore, go le gantsi mo morumong kgotsa mo pineng.

Mo Mophatong wa R, barutwana ba ithuta thulaganyo e e nepagetseng ya mainapalo le go boeletsa tatelano letsatsi le letsatsi. Maitlhomo a go balela kwa godimo ke go thusa barutwana go tlhaloganya gore fa re balela kwa godimo go na le thulaganyo e e tsepameng ya dinomore: e e simololang kwa go nngwe, go latele pedi, tharo, nne, j.j. Kwa tshimologong barutwana ga ba tlhaloganye bokao jwa leinapalo ka botlalo mme ka jalo ba ka tlola dinomore mo tatelanong ya go bala. Go bua morumo kgotsa motseletsele wa dinomore kwa godimo go kaya go boeletsa mainapalo go tswa mo thogong. Lefa barutwana ba bala ka bo-pedi, bo-tlhano le bo-lesome ba dirisa kitso ya bona ya thulaganyo eno ya dinomore. Go tshwarelela maina a dinomore le go di boeletsa ka thulaganyo e e nepagetseng ya go bala ga go kaye gore barutwana ba itse go bala. Seno se farologane le go bala go batla go itse gore 'bokaakang'.

Ithulaganyeng ka ditlhophha tse dinnye tsa bo-tlhano mme lo batle sebaka se se bulegileng mo phaposing ya katiso go dira tirwana e e latelang.



### **Tirwana 3**

1. Mo setlhopheng sa lona se sennye, bua morumo, *Nngwe, pedi, tharo, nne, tlhano*, ka ditiragatso.

### **Nngwe, pedi, tharo, nne, tlhano**

Nngwe, pedi, tharo, nne, tlhano

Nkile ka tshwara tlhapi e tshela.

'Goreng o ne wa e tlogela?'

Gonne e ne ya ntoma monwana botlhoko.

Nngwe, pedi, tharo, nne, tlhano

Morago ka tshwara segwagwa se tshela.

'O ne wa dirang ka sona?'

Ke ne ka re dumela mme ka se busetsa mo metsing.

2. Do you think using a rhyme like this one is good practice for teaching counting in Grade R? Give reasons for your answer.

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Refer to pages 76 and 196 of *Activity Guide: Term 1* for this rhyme.



#### Activity 4

In the same small groups, answer these questions:

1. What would learners learn by saying this rhyme?

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2. What do learners learn when they repeat a sequence of numbers in the correct counting order?

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2. A o akanya gore go dirisa morumo o o tshwanang le o ke ikatiso e e siametseng go ruta go bala mo Mophatong wa R? Neela mabaka a karabo ya gago.
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Lebelela ditsebe 77 le 197 tsa *Kaediy a Ditirwana: Kgweditharo 1* fa o batla go bona morumo ono.



#### Tirwana 4

Mo setlhopheng sona se sennye seo, arabang dipotso tseno:

1. Barutwana ba tlaa ithutang fa ba bua morumo ono?

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2. Barutwana ba tlaa ithutang fa ba boeletsa tatelano ya dinomore ka thualaganyo e e nepagetseng ya go bala?

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### **Counting objects (rational counting)**

Counting objects involves one-to-one correspondence. This means that each object or event to be counted is matched with a number word. To count ‘how many’, learners need to realise that each object in a collection gets a number word (‘one, two, three, four ...’) and that you count each object only once.

Once learners know the order of the counting numbers, they begin to understand that each number in the counting sequence is one bigger than the number before and one smaller than the next number. They:

- ◆ can mentally compare numbers and see that two is one more than one and that three is one more than two.
- ◆ realise that numbers grow by one each time.
- ◆ realise that any number in the counting sequence is exactly one more than the previous number.



### **Video 3**

Watch the video of learners counting a collection of objects. This is a teacher-guided activity. Notice how the teacher observes each learner and asks questions to prompt them to share their ideas.

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### **Representing numbers**



### **Activity 5**

How many different ways can you find to represent the number 5?

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### **Go bala dilo (go balela diphitlhelelo)**

Go bala dilo go akaretsa tsamaelano ya nngwe ka nngwe. Se se raya gore selo kgotsa tiragalo e nngwe le e nngwe e nyalanngwa le lefokopalo. Go bala gore 'di kae', barutwana ba tlhoka go lemoga gore selo se sengwe le se sengwe mo kokoanyong se na le lefokopalo ('nngwe, pedi, tharo, nne...') le gore o bala selo se sengwe le se sengwe gangwe fela.

Fa barutwana ba itse thulaganyo ya go bala dinomore, ba simolola go tlhaloganya gore nomore e nngwe le e nngwe mo tatelanong ya go bala e kgolwane mo nomoreng e e badilweng pele ga yona le gore e nnye ka nngwe mo nomoreng e e latelang. Ba:

- ◆ kgona go bapisa dinomore ka tlhogo le go bona gore pedi e feta nngwe ka nngwe le gore tharo e feta pedi ka nngwe.
- ◆ lemoga gore dinomore di gola ka nngwe nako e nngwe le e nngwe.
- ◆ lemoga gore nomore nngwe le nngwe mo tatelanong ya go bala e feta e e fetileng ka nngwe ka nepo.



### **Video 3**

Lebelela video ya barutwana ba bala dilo tse di kokoantsweng. Tirwana eno ke e e kaelwang ke morutabana. Lemoga ka moo morutabana a elang morutwana yo mongwe le yo mongwe tlhoko ka teng le go ba botsa dipotso go ba rotloetsa go arogana dikakanyo.

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### **Go tlhagisa dinomore**



### **Tirwana 5**

Ke ditsela di le kae tse o di lemogileng go ka tlhagisa nomore 5?

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Learners begin to represent numbers using their fingers, and then gradually start to use other methods, such as objects, drawings, pictures or symbols. Learners progress:

- ◆ from using actual objects to represent (stand in for) numbers, e.g. lemons, sweets, pencils, leaves
- ◆ to using pictures or drawings to represent the objects, e.g. a drawing of a lemon, person, car
- ◆ to using counters to represent the objects or pictures, e.g. plastic discs to show the number of lemons
- ◆ to using marks to represent the physical objects and pictures, e.g. circles, dots, tally marks, clapping sounds, drumbeats, stamping feet
- ◆ to using number symbols and number words, e.g. '2' or 'two'.

The Maths Programme uses an approach that introduces numbers 0–10 one at a time and follows the same teaching routine for each number.

- ◆ A story is told about the number. This raises learners' interest and provides a familiar, fun context that connects with learners' lives and interests.
- ◆ Each number has a particular animal character. The story featuring the animal is used to build a number frieze to represent the number.
- ◆ Dramatising the story provides opportunities for learners to respond kinaesthetically (learning through acting and moving their bodies).
- ◆ Objects are collected to represent the number in various ways. The objects are put in the maths area.
- ◆ Learners match objects to pictures, dot cards, number symbols and number words.
- ◆ The *Poster Book* provides real-life contexts to stimulate discussion and encourage problem solving.

The number 'one' is introduced in the second week of Term 1 to familiarise learners with this routine. The same routine is used as each new number is introduced, adding one more to the number the learners learnt previously.

Barutwana ba simolola go tshwantsha dinomore ba dirisa menwana mme ba tswelele ka go dirisa ditsela tse dingwe jaaka dilo, dithalo, ditshwantsho kgotsa matshwao.

Barutwana ba tswelela pele:

- ◆ go tswa mo tirisong ya dilo tse di tshwaregang go tshwantsha (go emela) dinomore, sk. disirilamunu, dimonamone, diphensele, mathare
- ◆ go ya mo tirisong ya ditshwantsho kgotsa dithalong go tshwantsha dilo, sk. sethalo sa sirilamunu, motho, koloi
- ◆ go ya mo tirisong ya dibadi go tshwantsha dilo kgotsa ditshwantsho, sk. didisiki tsa polasetiki go bontsha palo ya disirilamunu
- ◆ go ya mo tirisongmatshwao go tshwantsha dilo tse di bonalang le ditshwantsho, sk. didiko, marontho, matshwao a a lekalekanang, medumo ya diatla tse di opiwang, mesito ya meropa, dinao tse rethang lefatshe
- ◆ go ya mo tirisong ya matshwaopalo le mafokopalo, sk. '2' kgotsa 'pedi'.

Lenaneo la Dipalo le dirisa mokgwa o o tlhagisang dinomore 0–10 e le nngwe ka nako e le nngwe le go sala morago moetlo o o tshwanang wa go ruta mo nomoreng e nngwe le e nngwe.

- ◆ Kanelo ka ga nomore e a anaanelwa. Seno se dira gore barutwana ba nne le kgatlhego mme gape se tlamela ka ga bokaelo jo bo tlwaelegileng e bile bo kgatlhisga gape bo golagana sentle le dikgatlhego mmogo le matshelo a barutwana.
- ◆ Nomore e nngwe le e nngwe e na le semelo se se rileng sa phologolo. Kanelo e e tlhagisang phologolo e dirisiwa go aga nomorekgabisi go emela nomore.
- ◆ Go diragatsa kanelo go tlamela barutwana ka ditšhono go tsiboga ka tiragatso ya tsamaisommele (go ithuta ka go diragatsa le go tsamaisa mebele ya bona).
- ◆ Dilo di a kokoanngwa go tlhagisa nomore ka ditsela tse di farologaneng. Dilo di bewa mo lefelong la dipalo.
- ◆ Barutwana ba nyalya dilo le ditshwantsho, dikaratarontho, matshwaopalo le mafokopalo.
- ◆ *Buka ya Diphousetara* e tlamela ka makaelo a letsatsi le letsatsi go susumetsa dipuisano le go rotloetsa go rarabolola dipalo.

Nomore 'nngwe' e tlhagisiwa mo bekeng ya bobedi ya Kgweditharo 1 go tlwaetsa barutwana moetlo ono. Moetlo ono o dirisiwa fa nomore e nngwe le e nngwe e ntšhwa e tlhagisiwa, go okediwa fela ka o le mongwe mo nomoreng e barutwana ba e rutilweng mo nakong e e fetileng.

Before completing the next activity, interact with the facilitator as she tells the story for number 1 and builds up the number frieze using the house template and animal frieze cards. After listening to the story, complete Activity 11.



### Activity 6

What are the different ways that the number 1 was represented in the story?

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Pele ga go dirwa tirwana e e latelang, buisana le mofatlhosí fa a anaanelá kanelo ya nomore 1 le go aga nomorekgabisi ka go dirisa thempoleiti ya ntlo le dikaratakgabisi tsa diphologolo. Morago ga go reetsa kanelo, dirang Tirwana 11.



### Tirwana 6

Nomore 1 e tshwantshitswe/tlhagisitswe ka ditsela dife tse di farologaneng mo kanelong?

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# **Session 3: Implementing the five-group teaching model**

**2 hours**

We have already discussed how to organise your classroom for maths teaching and learning during Mathematics focus time. This section outlines how to plan and implement the Maths Programme and focuses on preparing for the teaching of Weeks 1 and 2 of Term 1.

## **Term 1 Content Summary (Weeks 1–2)**

**(1 hour)**

Appendix B: Term 1 Weekly Content Summary (Weeks 1–2) provides a summary of the content and offers suggestions for teaching and learning maths for each week with the following information:

- ◆ main Content Area Focus for the week
- ◆ topic(s) to be covered
- ◆ New knowledge and Practise focus for the week
- ◆ suggested activities for whole class and small groups (teacher-guided activity and workstation activities) for the week.

Read whole class activities, teacher-guided activity and workstation activities in Appendix B: Term 1 Weekly Content Summary (Weeks 1–2).

## **Karolo 3: Go diragatsa mmotlolo wa go ruta ka setlhophsa sa botlhano**

**Diura di le 2**

Re setse re buisane ka gore phaposiborutelo ya gago e ka rulaganyetswa go rutiwa le go ithuta dipalo jang mo nakong eo go totilweng Dipalo. Karolo eno e thadisa gore Lenaneo la Dipalo le rulaganyediwa le go diragatswa jang mme gape e totile ipaakanyetso ya go ruta mo Dibekeng 1 le 2 tsa Kgweditharo 1.

### **Kgweditharo 1 Khutshwafatso ya Diteng (Dibeke 1-2) (Diura e le 1)**

Mametlelelo B: Kgweditharo 1 Khutshwafatso ya Diteng tsa Beke le Beke (Dibeke 1-2) e tlamela ka khutshwafatso ya diteng le go neela ditshikhinyo tsa go ruta le go ithuta dipalo mo bekeng e nngwe le e nngwe ka tshedimosetso e e latelang:

- ◆ Karoloteng e e Lebeletsweng segolobogolo mo bekeng
- ◆ se/dithogo tse di tshwanetseng go lebiwa
- ◆ Kitso e ntšhwa le Ikatise tse di lebeletsweng mo bekeng
- ◆ ditirwana tse di tshikhintsweng tsa phaposiborutelo yotlhe le dithlopha tse dinnye (tirwana e e kaelwang ke morutabana le ditirwana tsa seteišenetiro) tsa beke.

Buisa ditirwana tsa phaposiborutelo yotlhe, ditirwana tse di kaelwang ke morutabana le ditirwana tsa seteišenetiro mo Mametlelong B: Kgweditharo 1 Khutshwafatso ya Diteng tsa Beke le Beke (Dibeke 1-2).



## Activity 7

Look at Appendix B: Term 1 Weekly Content Summary (Weeks 1–2). Answer the questions.

Questions	Week 1	Week 2
What is the Content Area Focus for the week?		
What are the key concepts that learners will be learning?		
What new knowledge is introduced?		
What skills are being practised in Week 2?		



## Tirwana 7

Lebelela Mametlelelo B: Kgweditharo 1 Khutshwafatso ya Diteng tsa Beke le Beke (Dibeke 1-2). Araba dipotso.

Dipotso	Beke 1	Beke 2
Karoloteng e e Lebeletsweng mo bekeng eno ke efe?		
Barutwana ba tlaa bo ba ithuta megopoloo efe ya botlhokwa?		
Go tlaa tlhagisiwa kitso efe e ntšhwa?		
Ke dikgono dife tse di diragadiwang mo Bekeng ya 2?		

## **Activity Guide: Term 1**

The *Activity Guides* provide Grade R teachers with a structure and framework and offer weekly suggestions for maths teaching and learning.

Refer to Weeks 1 and 2 in *Activity Guide: Term 1* and the Weekly Content Summary in Appendix B. Complete Activity 13 in your group.



### **Activity 8**

1. Look at *Activity Guide: Term 1* and add the information to the table.

<b>Race around <i>Activity Guide: Term 1</i></b>	
What is on pages 6, 8 and 10?	
On which page is the 'Our classroom rules' poster?	
On which pages is the content overview for Term 1?	
What information is at the start of each new week?	
Find the <i>Grade R Maths family story</i> .	
Which song is introduced in Week 2?	
Find where number 1 is introduced.	
Find a whole class activity that focuses on oral counting.	
Find a teacher-guided activity that focuses on one-to-one correspondence.	
Find a workstation activity that focuses on consolidating the number concept '1'.	

2. Refer to the whole class activities, teacher-guided activity and workstation activities in Appendix B. Find these activities in *Activity Guide: Term 1*.

## Kaedi ya ditirwana: Kgweditharo 1

Dikaedi tsa Ditirwana di tlamela barutabana ba Mophato wa R ka sebopego le letlhomeso le go neelana ditshikhinyo tsa beke le beke tsa go ruta le go ithuta dipalo.

Lebelela Dibeke 1 le 2 mo *Kaeding ya Ditirwana: Kgweditharo 1* le Khutshwafatso ya Diteng tsa Beke le Beke mo Mametlelelong B. Wetsa Tirwana 13 mo setlhopheng sa gago.



### Tirwana 8

1. Lebelela *Kaedi ya Ditirwana: Kgweditharo 1* mme o tsenye tshedimosetso mo papetleng.

Race around <i>Kaedi ya Ditirwana: Kgweditharo 1</i>	
Ke eng se se mo tsebeng 7, 9 le 11?	
Phousetara ya 'Melawana ya phaposiborutelo ya rona' e fitlhelwa mo tsebeng efe?	
Thadiso ya diteng tsa Kgweditharo 1 e fitlhelwa mo ditsebeng dife?	
Ke tshedimosetso efe e e fitlhelwang mo tshimologong ya beke e nngwe le e nngwe?	
Batla Kanelo ya Lelapa la Dipalo tsa Mophato wa R.	
Ke pina efe e e tlhagisiwang mo Tsebeng ya 2?	
Batla foo nomore 1 e tlhagisiwang gona.	
Batla tirwana ya phaposiborutelo yotlhe e e totileng go balela kwa godimo.	
Batla tirwana e e kaelwang ke morutabana e e totileng tsamaelano ya nngwe ka nngwe.	
Batla tirwana ya seteišenetiro e e totileng go tsolotanya mogopolopalo '1'.	

2. Lebelela ditirwana tsa phaposiborutelo yotlhe, tse di kaelwang ke morutabana le tsa seteišenetiro mo Mametlelelong B. Batla ditirwana tseno mo *Kaeding ya Ditirwana: Kgweditharo 1*.



In Grade R assessment is informal and continuous. We need to observe learners throughout the day, inside and outside the classroom.

The Maths Programme is designed around the rotation of small groups during a week and the teacher pays special attention to one group a day, watching and listening as the learners complete specific tasks. This time gives the teacher the opportunity to carefully observe each learner and gather information on their progress.

Look at the shaded block at the end of the teacher-guided activity in Week 2: ‘**Check that learners are able to**’. The eye icon reminds us that we need to observe the learners while they are busy, and we need to listen carefully while they are talking to us and to their peers.

The teacher makes a mental note of each learner and once the learners have left for the day, she writes down her observations in a dedicated observation book that has space for each learner’s notes.

### **Poster Book and Resource Kit (10 minutes)**

The *Resource Kit* has enough apparatus for a small group of six to eight learners. The apparatus that will be used in Term 1 Weeks 1 and 2 includes:

- ◆ counters: animal and fruit counters
- ◆ number cards: number symbol (1) and number word (one).

You will each receive a *Resource Kit* and a *Poster Book*.

Refer to pages 6–17 of *Activity Guide: Term 1* to read about classroom resources and setting up a maths learning environment.



Mo Mophatong wa R, tlhatlhobo ke e e sa tlhomamang le e e tswelelang. Re tlhoka go ela barutwana botlhe tlhoko letsatsi lotlhe, mo gare le kwa ntle ga phaposiborutelo.

Lenaneo la Dipalo le thadilwe go lebeletswe tikologo ya dithlopha tse dinnye mo gare ga beke mme morutabana a lebelele setlhlopha se le sengwe mo letsatsing, a ba lebeletse le go ba reetsa fa barutwana ba dira ditirwana tse di rileng. Nako eno a naya morutabana tshono go ela tlhoko morutwana yo mongwe le yo mongwe ka kelothhoko le go kokoanya tshedimosetso ka ga tswelelopele ya bona.

Lebelela boloko jo bo ntshofaditsweng kwa bofelong jwa tirwana e e kaelwang ke morutabana mo Bekeng 2: '**Tlhola gore a barutwana ba kgona go**'. Setshwantsho sa leitlho se re gopotsa gore re tlhoka go ela barutwana tlhoko fa ba dira, le gore re tlhoka go reetsa ka kelothhoko fa ba bua le rona le balekane ba bona.

A morutabana a tshware dintlha tsa morutwana yo mongwe le yo mongwe ka tlhogo mme fa barutwana ba ile gae a kwale dilo tse a di etseng tlhoko mo bukeng e e beetsweng go kwala dintlha tsa mothale ka ga barutwana mme e na le moo dintlha tsa morutwana yo mongwe le yo mongwe di ka kwalwang gona.

### Buka ya Diphousetara le Kgetsana ya Didiriswa (Metsotso e le 10)

*Kgetsana ya Didiriswa* e na le didiriswa tse di lekanang setlhotshwana sa barutwana ba le barataro go ya go ba le robedi. Didiriswa tse di tlaa dirisiwang mo Kgweditharong ya 1 Dibeke 1 le 2 di akaretsa:

- ◆ dibadi: dibalaphologolo le dibalamaungo
- ◆ dikaratapalo: letshwaopalo (1) le lefokopalo (nngwe).

Mongwe le mongwe o tlaa amogela *Kgetsana ya Didiriswa* le *Buka ya Diphousetara*.

Lebelela ditsebe 6–17 tsa *Kaedi ya Ditirwana*: Kgweditharo 1 go buisa ka ga metswedi ya phaposiborutelo le go baakanya boemo jo bo siametseng go ka ithuta dipalo.

## Closing activities

(10 minutes)



### Activity 8

**Lessons learnt:** Think about what you learnt during the workshop and complete the table.

Things I am already doing that work well	New ideas that I would like to try



### Take back to school task

1. Read the *Concept Guide* pages that were referred to during this workshop.
2. Use *Activity Guide: Term 1* to plan and implement Weeks 1–2 of the Maths Programme.
3. Reflect on how the Maths Programme's guiding principles informed teaching and learning in your classroom.
4. Set up a maths area. Take a photograph of it and bring it to the next workshop.





### Tirwana 9

**Se o se ithutileng:** Akanya ka ga se o se ithutileng ka nako ya thutano mme o tlatse papetla.

Dilo tse ke setseng ke di dira mme di dira sentle	Dikakanyo tse dišwa tse ke ratang go di lekeletsa



### Tirwana e o e busetsang kwa sekolong

1. Buisa ditsebe tsa *Kaedi ya Mogopolo* tse di neng di lebilwe ka nako ya thutano.
2. Dirisa *Kaedi ya Ditirwana: Kgweditharo 1* go rulaganyetsa le go diragatsa Dibeke 1–2 tsa Lenaneo la Dipalo.
3. Akanya ka moo melawana e e kaelang Lenaneo la Dipalo e nang le seabe mo go ithuteng le go ruteng mo phaposiborutelong ya gago.
4. Baakanya lefelo la dipalo. Le tshwantshe mme o tle ka setshwantsho kwa thutanong e e latelang.



**Bring the following to the next workshop:**

- ◆ *Poster Book*
- ◆ *Concept Guide*
- ◆ *Activity Guide: Term 1.*

**Evaluation**

Complete the Evaluation Form.

**Tlaya le tse di latelang kwa thutanong e e latelang:**

- ◆ *Buka ya Diphousetara*
- ◆ *Kaedi ya Mogopoloo*
- ◆ *Kaedi ya Ditirwana: Kgweditharo 1.*

**Tlhatlhobo**

Tlatsa Foromo ya Tlhatlhobo.

## APPENDIX B: TERM 1 WEEKLY CONTENT SUMMARY (WEEKS 1-2)

### Term 1: Activity Plan

Week 1			
<b>CONTENT AREA: NUMBERS, OPERATIONS AND RELATIONSHIPS</b>			
<b>TOPIC:</b> Oral counting and counting objects			
<b>INTRODUCE NEW KNOWLEDGE:</b> Oral counting 1–5, counting objects 1–3, one-to-one correspondence, sequencing daily programme			
Whole class activities	Teacher-guided activity	Workstation activities	
Day 1 Routine, class rules, learner symbols and daily programme.	No teacher-guided small group activity in the first week to allow the teacher to rotate between all five workstations: guiding, assisting and encouraging the learners.	Activity 1	Sorting animal and fruit counters by colour (from the <i>Resource Kit</i> ). Playdough or clay modelling. Draw a picture. Six-piece puzzle. Building blocks.
Day 2 Helper's chart, rhyme, <i>Grade R Maths family story</i> .		Activity 2	
Day 3 Helper's chart, Tidy-up chart, rhyme, oral counting and the <i>Grade R Maths family story</i> .		Activity 3	
Day 4 Rhyme, oral counting, counting objects, sequencing daily events, bowls.	Some learners may not have seen or used the equipment before so the teacher will need to demonstrate and support their first attempts.	Activity 4	
Day 5 Rhyme, oral counting, learners' symbols.		Activity 5	
Week 2			
<b>CONTENT AREA: NUMBERS, OPERATIONS AND RELATIONSHIPS</b>			
<b>TOPIC:</b> Number symbols and number words			
<b>INTRODUCE NEW KNOWLEDGE:</b> Introduce number 1, solving problems in everyday contexts (rhymes and posters)			
<b>PRACTISE:</b> Oral counting 1–5, counting objects 1–3, vocabulary from previous week			
Whole class activities	Teacher-guided activity	Workstation activities	
Day 1 Song, oral counting, introduce number 1 and the number 1 frieze, body parts ('how many?' games), find one object.	Support learners in their efforts to complete tasks. Ask guiding questions and encourage learners to share their ideas.	Activity 1	Matching counters to dots using egg boxes. Make one playdough object and draw it.
Day 2 Song, oral counting, frieze for number 1, body games.	Count objects: one-to-one correspondence.	Activity 2	'One' template using playdough.
Day 3 Song, oral counting, counting objects, reinforce number 1, look for 1 object.	Sort animal counters according to colour. Match number 1 symbol and word cards with dot card and animal counters.	Activity 3	Building blocks.
Day 4 Rhyme, oral counting, problem solving – poster story.		Activity 4	
Day 5 Rhyme, oral counting, counting objects in the poster, solving problems.			

## MAMETLELELO B: KGWEDITHARO 1 KHUTSHWAFATSO YA DITENG TSA BEKE LE BEKE (DIBEKE 1-2)

### Kgweditharo 1: Thulaganyo ya ditirwana

Beke 1					
KAROLOTENG: DINOMORE, DITIRO LE DIKAMANO					
SETLHOGO: Go balela kwa godimo le go bala dilo TLHAGISA KITSO E NTSHWA: Go balela kwa godimo 1-5, go bala dilo 1-3, tsamaelano ya nngwe ka nngwe, tatedisanyo ya lenaneo la letsatsi le letsatsi					
Ditirwana tsa phaposiborutelo yotlhe	Tirwana e e kaelwang ke morutabana	Ditirwana tsa seteišenetiro			
Letsatsi 1	Tlwaelo, melawana ya phaposiborutelo, matshwao a barutwana le lenaeno la letsatsi le letsatsi.	Ga go na tirwana ya setlhophae e kaelwang ke morutabana mo bekeng ya ntla go letla morutabana go lekola diteišenetiro tsotlhe di le tlhano: a kaela, a thusa le go rotloetsa barutwana. Bangwe ba barutwana ba ka tswa ba ise ba ko ba dirise sediriswa le e seng go se bona ka jalo morutabana o tlaa tlhoka go ba bontsha le go ba tshegetsa mo maitekong a bona a ntlha.	Tirwana 1	Go tlhaola dibalaphologolo le dibalamaungo ka mmala (go tswa mo <i>Kgetsaneng ya didiriswa</i> ). Tege ya go tshameka kgotsa mmotlolwa letsopa. Thala setshwantsho. Phazele ya dikarolo di le thataro. Diboloko tsa mapolanka.	
Letsatsi 2	Tšhate ya bathusi, morumo, <i>Kanelo ya lelapa ya Dipalo tsa Mophato wa R.</i>		Tirwana 2		
Letsatsi 3	Tšhate ya bathusi, Tšhate ya bophepafatsi, morumo, go balela kwa godimo le <i>Kanelo ya lelapa ya Dipalo tsa Mophato wa R.</i>		Tirwana 3		
Letsatsi 4	Morumo, go balela kwa godimo, go bala dilo, go latedisanya ditiragalo tsa letsatsi le letsatsi, dijana.		Tirwana 4		
Letsatsi 5	Morumo, go balela kwa godimo, matshwao a barutwana l.		Tirwana 5		
Beke 2					
KAROLOTENG: DINOMORE, DITIRO LE DIKAMANO					
SETLHOGO: Matshwaopla le mafokopalo TLHAGISA KITSO E NTSHWA: Tlhagisa nomore 1, go rarabolola dipalo mo bokaelong jwa letsatsi le letsatsi (merumo le diphousetara) IKATISE: Go balela kwa godimo 1-5, go bala dilo 1-3, tlotlofoko e e tswang mo bekeng e e fetileng					
Tirwana e e kaelwang ke morutabana	Tirwana e e kaelwang ke morutabana	Ditirwana tsa seteišenetiro			
Letsatsi 1	Pina, go balela kwa godimo, tlhagisa nomore 1 le nomorekgabisi 1, dirwe tsa mmele ('di kae?' metshameko), batla selo se le sengwe.	Tshegetsa barutwana mo maitekong a bona a go wetsa ditirwana. Ba botse dipotso tse di kaelang mme o ba rotloetse go arogana dikakanyo. Bala dilo: tsamaelano ya nngwe ka nngwe. Tlhaolsa dibalaphologolo go ya ka mebala. Nyalanya letshwao la nomore 1 le dikaratafoko le dikaratarontho le dibalaphologolo.	Tirwana 1	Go nyalanya dibadi le marontho ka go dirisa mabokoso a mae.	
Letsatsi 2	Pina, go balela kwa godimo, kgabisi ya nomore 1, dirwe tsa mmele.		Tirwana 2	Dira selo sa tege ya go tshameka mme o bo o se thale. Thempoleiti ya 'Nngwe' ka go dirisa tege ya go tshameka.	
Letsatsi 3	Pina, go balela kwa godimo, go bala dilo, gatelela nomore 1, batla selo se le 1.		Tirwana 3	Diboloko tsa mapolanka.	
Letsatsi 4	Morumo, go balela kwa godimo, <i>kanelo ya phousetara ya go rarabolola dipalo.</i>		Tirwana 4		
Letsatsi 5	Morumo, go balela kwa godimo, go bala dilo mo phousetareng, go rarabolola dipalo.				

# **Workshop 1 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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# **Foromo ya Tlhatlhobo ya Thutano 1**

1. A thutano e kgonne go fitlhelela ditsholofelo tsa gago?

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2. Ke eng se o se ithutileng mo thutanong eno se se go thusitseng go gaisa?

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3. A go na le sengwe se o sa se ratang kgotsa se se neng se go thatafalela?

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4. O ya go diragatsa jang se o se ithutileng mo phaposiborutelong ya gago ya Mophato wa R?

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5. A go na le se o se tshikhinyang go ka thusa go tokafatsa dithutano tse di latelang?

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