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**GGT 2030**  
GROWING GAUTENG TOGETHER

IsiZulu/English

# **Uhlelo Lokuthuthukisa Izibalo Zebanga R Grade R Mathematics Improvement Programme**



**Umhlangano Wokucobelana Ngolwazi 2 • Workshop 2**  
**Incwadi Yokusebenzela Yababambiqhaza • 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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# Overview

## Purpose

This is the second 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.

The purpose of this workshop is to assist teachers to implement the Maths Programme in their classrooms. The focus of this workshop is Space and Shape (Geometry). Participants will strengthen their knowledge and understanding of teaching and learning in this Content Area, prepare for teaching Space and Shape (Geometry) activities in their classrooms and reflect on the guiding principles that inform teaching.

## Learning outcomes

- ◆ To reflect on the implementation of Term 1 Weeks 1–2
- ◆ To explore strategies to support teaching maths in Grade R (e.g. problem solving, investigation, exploration, questioning, critical thinking, active listening, observation)
- ◆ To engage with the Maths Programme content of Term 1 Weeks 3–5 (Space and Shape (Geometry))
- ◆ To apply the Maths Programme principles in weekly planning

## Workshop content

- ◆ Opening and reflection (1 hour)
  - ◆ Session 1: Content overview (1 hour)
- TEA
- ◆ Session 2: Space and Shape (Geometry) (2 hours)
- LUNCH
- ◆ Session 3: Planning for teaching (2 hours)

# Ukubuka ngelibanzi

## Inhloso

Lo owesibili emihlanganweni yokucobelelana ulwazi eyishumi nambili ngaphansi kwesihloko: Uhlelo Lokuthuthukisa Izibalo ZeBanga R, eyingxenye YoMnyango WezeMfundo wesiFundazwe saseGauteng (Gauteng Department of Education (GDE)) Uhlelo Lokuthuthukisa Izibalo neziLimi ZeBanga R.

Inhloso yalo mhlango wokucobelelana ngolwazi ukusiza othisha ukuthi basebenzise Uhlelo Lwezibalo emakilasini abo. Lo Mhlango wokucobelelana ngolwazi uthinta kakhulu Indawo Nesimo (Ijyomethri). Ababambi-qhaza bazoqinisa ulwazi nokuqonda kwabo ukufundisa nokufunda kule Ngxenye Yolwazi, balungiselele ukufundisa imisebenzi Yendawo Nesimo (ijyomethri) emakilasini abo futhi bacabange ngezimiso eziqondisayo ezifundisa ukufundisa.

## Imiphumela yokufunda

- ◆ Ukucabanga ngokusetshenziswa kweThemu yoku-1 Amasonto 1–2
- ◆ Ukuze kuhlolwe amasu okuxhumana okweseka ukufundisa izibalo Ebangeni R (isb. ukuxazulula izinkinga, uphenyo, ukuhlola, imibuzo, ukucabanga okujulile, ukubuka)
- ◆ Ukuzibandakanya nokuqokethwe Kohlelo Lwezibalo lweThemu 1 Amasonto 3–5 (Indawo Nesimo (Ijyomethri))
- ◆ Ukusebenzisa izimiso Zohlelo Lwezibalo ekuhleleni kwamasonto onke

## Okuqokethwe komhlangano wokucobelelana ngolwazi

- ◆ Ukuvula nokuzindla (1 ihora)
- ◆ Iseshini 1: Ukubuka ulwazi ngelibanzi (1 ihora)

### ITIYE

- ◆ Iseshini 2: Indawo Nesimo (Ijyomethri) (2 amahora)

### ISIDLO SASEMINI

- ◆ Iseshini 3: Ukuhlelela ukufundisa (2 amahora)

# Opening and reflection

1 hour

In your Workshop 1 *Take back to school* task you were asked to complete several activities. We would like you to spend a few minutes reflecting on your progress so far.

In your groups, think about your maths teaching over the past two weeks and how successfully you have implemented Term 1 Weeks 1-2.



## Activity 1

In your group, discuss your successes and challenges with implementing Term 1 Weeks 1-2 of the Maths Programme. Allow each person to have a turn to present their reflections.

1. Briefly describe how you organised your classroom and how you prepared for teaching these two weeks.

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2. Discuss what worked well and what you found difficult to implement. Does anyone have any helpful suggestions?

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3. Share how and when you applied the guiding principles of teaching in your daily programme Mathematics focus time?

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# Ukuvula nokuzindla

1 ihora

Emhlanganweni Wokucobelelana Ngolwazi 1 *Umsebenzi obuyela nawo esikoleni* wawucelwe ukuthi uqedele imisebenzi embalwa. Sithanda ukuthi uchithe imizuzu embalwa ucabanga ngenqubekelaphambili yakho kuze kube manje.

Emaqenjini enu, cabangani ngokufundisa kwenu izibalo emasontweni amabili edlule nokuthi nisebenzise ngempumelelo kangakanani ngeThemu 1 Amasonto 1-2.



## Umsebenzi 1

Eqenjini lenu, xoxani ngempumelelo nezinselele zenu ngokusebenzisa iThemu 1 Amasonto 1-2 Uhlelo Lwezibalo. Vumela umuntu ngamunye ukuthi abe nethuba lokwethula ukucabanga kwakhe.

1. Chaza kafushane ukuthi ulihlele kanjani ikilasi lakho nokuthi uzilungiselele kanjani ukufundisa kulawa masonto amabili.

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2. Xoxa ngalokho okusebenze kahle nalokho okuthole kunzima ukukusebenzisa. Ngabe ukhona onanoma yiziphi iziphakamiso eziwusizo?

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3. Yabelana nabanye ngokuthi uzisebenzise kanjani futhi nini izimiso eziqondisa uhlelo lwansuku zonke Lwezibalo ngesikhathi sokugxila?

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### Video 1

Watch the video of the teacher-guided activity which involves a small group of learners.

What do you think the intention of the activity is? Pay special attention to how the teacher prompts the learners with questions and how she observes each learner.

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In Workshop 1 we discussed the eight guiding principles of teaching maths in Grade R. Activity 2 requires that you to match each of the eight principles with two statements that best describe it.



### Activity 2

1. Each group has been given an envelope containing a number of strips. Find the eight guiding principles of teaching and place them in a row on your table.
2. Discuss each of the statements and decide with which principle it fits best. Place the statement under this principle.



### Ividiyo 1

Buka ividiyo yomsebenzi oholwa nguthisha obandakanya iqenjana labafundi.

Ucabanga ukuthi iyini inhloso yalo msebenzi? Naka ngokukhethekile ukuthi uthisha ubabuza kanjani abafundi imibuzo kanye nendlela aqaphela ngayo umfundi ngamunye.

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Kumhlangano Wokucobelelana Ngolwazi 1 sixoxe ngemigomo elawulayo eyisishiyagalombili yokufundisa izibalo Ebangeni R. Umsebenzi 2 udinga ukuthi uqondanise isimiso ngasinye nezitatimende ezimbili ezisichaza kangcono.



### Umsebenzi 2

1. Iqembu ngalinye linikezwe imvilophu enemidweshu embalwa. Thola izimiso eziyisishiyagalombili ezingumhlahlandlela wokufundisa uzibeke zilandelane etafuleni lakho.
2. Xoxa ngesitatimende ngasinye bese unquma ukuthi yisiphi isimiso esivumelana kangcono naso. Beka isitatimende ngaphansi kwalesi simiso.

# Session 1: Content overview

1 hour

## Term 1 Content overview: Space and Shape (Geometry)

The content for teaching and learning in Weeks 3–5 focuses mainly on the CAPS Content Area, Space and Shape (Geometry). This content involves more than teaching learners to identify geometric shapes. Their understanding of space and shape depends to a large extent on whether they understand and can use position vocabulary to describe the location of an object (e.g. on, in, next to, behind, in front of). Learners also need to be able to see objects from different positions or views (e.g. from the top, from the bottom, turned sideways, flipped upside down).

Read the content overview for Space and Shape (Geometry) on pages 126–131 of the *Concept Guide*. It provides an overview of the Maths Programme content to be taught in each term of Grade R.

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



### Activity 3

Look at 3.1–3.4 of the content overview for Space and Shape (Geometry) on pages 126–131 of the *Concept Guide*. In your group, do the following:

1. Look at each topic and discuss the content and developmental progression across the four terms.

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# Iseshini 1: Ukubuka ulwazi ngelibanzi

1 ihora

## Ukubuka ulwazi ngelibanzi Ithemu 1: Indawo Nesimo (Ijijomethri)

Okuqukethwe kokufundisa nokufunda Emasontweni 3–5 kugxile kakhulu ku-CAPS Ingxenye Yolwazi, Isikhala Nesimo (Ijijomethri). Ingxenye Yolwazi ibandakanya okungaphezu kokufundisa abafundi ukubona izimo zejijomethri. Ukuqonda kwabo indawo nesimo kuncike kakhulu ekutheni bayaqonda yini futhi bangasebenzisa ulwazimagama lwesikhundla ukuchaza indawo yento (isb., ku-, eceleni ne-, ngemuva, phambi kwe-). Abafundi badinga futhi ukuzibona izinto ezikhundleni noma ngokubuka ezindaweni ezahlukenene (isib. ukusuka phezulu, ukusuka phansi, ukuphendukela emaceleni, ukuphendukiselwa phansi).

Funda uhlaka lokubuka ngelibanzi Lwendawo Nesimo (Ijijomethri) kumakhasi 126–131 *Omhlahlandlela Wokuqonda Isifundo*. Uhlinzeka ngokubuka ngelibanzi Uhlelo Lwezibalo okumele lufundiswe ethemini ngayinye yeBanga R.

- ◆ Umbhalo oluhlaza okwesibhakabhaka ulwazi oluphuma ku-CAPS LweZibalo Zebanga R.
- ◆ Incazelo yemibhalo nolwazi olumnyama lwengezezelwe ukunweba nokwakhela ku-CAPS.
- ◆ Izihloko zilandelaniswe ukuze zikhombise inqubekela phambili yokuthuthuka kwesihloko esisodwa kuya kwesinye.



### Umsebenzi 3

Bheka u-3.1–3.4 ukubuka ngelibanzi okuqukethwe Kwendawo Nesimo (Ijijomethri) emakhasini 126–131 *Omhlahlandlela Wokuqonda Isifundo*. Eqenjini lakho, yenza lokhu okulandelayo:

1. Bheka isihloko ngasinye bese uxoxa ngokuqukethwe kanye nenqubekelaphambili yokuthuthuka kuwo wonke amathemu amane.

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2. Look at the text in black and discuss what the Maths Programme adds to the content from CAPS.

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3. Why do you think that the weighting of Space and Shape (Geometry) is the second highest of the Content Areas in Grade R?

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4. How have you approached teaching Space and Shape (Geometry) in your classroom? Give examples of lessons and activities that you have used in the past.

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2. Bheka umbhalo obhalwe ngokumnyama bese uxoxa ngokuthi Uhlelo LweziBalo lwengezani kulwazi oluvela kuCAPS.

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3. Kungani ucabanga ukuthi ukukala Indawo Nesimo (Ijyomethri) kungokwesibili ukuphakama ngokuphathelene Nezingxenye Zolwazi Ebangeni R?

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4. Ukwenze kanjani ukufundisa Indawo Nesimo (Ijyomethri) ekilasini lakho? Nikeza izibonelo zezifundo nemisebenzi oye wayisebenzisa esikhathini esidlule.

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## Session 2: Space and Shape (Geometry)

2 hours

### Spatial concepts

(30 minutes)

Learners start to learn about spatial concepts such as position, direction, orientation (different views) and perspective as they use their own bodies to explore the relationship between themselves, other people and objects.



#### Activity 4

The facilitator has set up a simple obstacle course. With a partner take turns to guide each other through the obstacle course. Use positional and directional language to give clear instructions.

### Using the *Poster Book* to talk about position and direction

The Maths Programme's *Poster Book* provides opportunities to use real-life contexts to explore concepts. On Poster 9 of the *Poster Book* you can see where Malusi lives in relation to other people and places in his neighbourhood. This poster can be used to stimulate discussion about the position of people and objects in relation to one another and to encourage learners to use and become familiar with the language that describes space, position and direction. Learners link maths to their everyday lives as they discuss and solve problems.



#### Activity 5

In your group, look at Poster 9 and discuss the following:

1. What position and direction words could you introduce to learners and encourage them to use?

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2. What other questions could you ask learners that would help them to learn about position, direction, orientation (views) and perspective?

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Refer to pages 172–177 of the *Concept Guide* to read more about space.



## Iseshini 2: Indawo Nesimo (Ijijomethri) 2 amahora

### Imiqondo yendawo

(30 imizuzu)

Abafundi baqala ukufunda mayelana nemiqondo yendawo njengokuthi isikhundla, inkomba, isimo (imibono ehlukeni) yokubuka kube njengoba besebenzisa imizimba yabo ukuhlola ubudlelwano phakathi kwabo, abanye abantu nezinto.



#### Umsebenzi 4

Umdidiyeli usethe umsebenzi olula wesithiyi. Shintshanani nophathina ukuze niqondisane emsebenzini wezithiyi. Sebenzisa ulimi lwesikhundla nokuqondisa ukuze unikeze imiyalelo ecacile.

### Besebenzisa *Ibhuku Lamaphosta* ukukhuluma ngesikhundla kanye nesiqondiso

*Ibhuku Lamaphosta* Lohlelo LweziBalo lunikeza amathuba okusebenzisa izimo ezingokoqobo ukuze uhlole imiqondo. KuPhosta 9 *Yebhuku Lamaphosta* ungabona lapho uMalusi ehlala khona maqondana nabanye abantu nezindawo ezingomakhelwane bakhe. Le phosta ingasetshenziselwa ukugqugquzela ingxoxo ngesikhundla sabantu nezinto maqondana nokunye okukhuthaza abafundi ukuthi basebenzise futhi bajwayelane nolimi oluchaza indawo, isikhundla kanye nokukhomba indlela. Abafundi baxhumanisa izibalo nempilo yabo yansuku zonke njengoba bexoxa futhi bexazulula izinkinga.



#### Umsebenzi 5

Eqenjini lakho, bheka Iphosta 9 bese nixoxa ngalokhu okulandelayo:

1. Yisiphi isikhundla namagama ezinkomba ongawethula kubafundi futhi ubakhuthaze ukuthi bawasebenzise?

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2. Yimiphi eminye imibuzo ongayibuza abafundi engabasiza ukuba bafunde mayelana nesikhundla, isikhombisi-ndlela, ukuma (imibono) kanye nendlela yokubuka izinto?

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Bheka amakhasi 172–177 *Umhlahlandlela Wokuqonda Isifundo* ukuze ufunde kabanzi mayelana nendawo.

## Introducing shapes

(1 hour)

In Grade R learners focus on recognising, identifying and naming three-dimensional (3-D) objects and two-dimensional (2-D) shapes.

- ◆ 3-D means that an object has three dimensions: length, breadth (width) and height.
- ◆ 2-D means that a shape has two dimensions: length and breadth (width).

### **Recognising, identifying and comparing three-dimensional objects**

In Grade R learners explore the properties of everyday objects. They build constructions using recycled household materials such as boxes, cans, tubs, toilet roll inner, balls and so on. They investigate and describe box- and ball-shaped objects. They compare and sort objects and talk about similarities and differences.



#### **Video 2**

Watch the video of a teacher talking to learners who are sorting a collection of objects. Listen to how she prompts the learners to explain how they are sorting the objects and how to use the correct terms to describe each object.

Refer to pages 178–181 of the *Concept Guide* to read more about 3-D objects.

### **Moving from 3-D objects to 2-D shapes**

In Grade R, the focus is on the properties of objects and shapes. Learners learn to identify and describe the properties of both objects and shapes.

## Ukwethula izimo

(1 ihora)

KuBanga R abafundi bagxila ekwazini, ekuboneni nasekubizeni izinto ezinhlangothi-ntathu (3-D) nezimo ezinhlangothi-mbili (2-D).

- ◆ U-3-D uchaza ukuthi into inezinhlangothi ezintathu: ubude, ububanzi kanye nokuphakama
- ◆ U-2-D uchaza ukuthi isimo sinezinhlangothi ezimbili: ubude kanye nobubanzi.

### **Ukubona, ukukhomba nokuqhathanisa izinto ezinezinhlangothi ezintathu**

Abafundi beBanga R bahlola izakhiwo zezinto zansuku zonke. Bakha izakhiwo besebenzisa izinto zasendlini ezigaywe kabusha njengamabhokisi, amathini, izindishi, ingaphakathi leroli yephepha lendlu yangasese, amabhola nokunye. Baphenya bachaze izinto ezimise okwebhokisi nebhola. Baqhathanisa futhi bahlele izinto futhi bakhulume ngokufana nokwehluka.

Bheka amakhasi 178–181 *Umhlahlandlela Wokuqonda Isifundo* ukufunda okwengeziwe ngezinto ezingu-3-D.

### **Ukusuka ezintweni ezingu-3-D uye ezimweni ezingu-2-D**

Ebangeni R, kugxilwe ezimpawini zezinto kanye nezimo. Abafundi bafunda ukuhlonza nokuchaza izici zako kokubili, izinto kanye nezimo.



### Activity 6

- ◆ Explore and describe the properties of a box.
- ◆ Place a box on a piece of paper.
- ◆ Trace around the base of the box.
- ◆ Describe the lines of your drawing.
- ◆ Name the shape you have drawn.
- ◆ How do you know it's a square/rectangle?
- ◆ How many sides does it have?
- ◆ How many corners does it have?
- ◆ What is the difference between the box and the square/rectangle?

### Recognising, describing and comparing two-dimensional shapes

Learners need to observe and discuss a variety of 2-D shapes to find out what the common properties of a particular shape are, e.g. even though all triangles may not look exactly the same, they all have three sides and three corners; all rectangles have four sides regardless of the orientation.

Use the attribute blocks on your table to explore 2-D shapes.



### Activity 7

In your group, talk about the shape of the surface of each attribute block.

- ◆ Look for a shape that has four corners.
- ◆ Use your finger to trace around the shape. What is the shape called?
- ◆ Look for a shape that has no straight sides.
- ◆ Use your finger to trace around the shape. What is the shape called?
- ◆ Look for a shape that has three sides that are exactly the same.

Refer to pages 182–189 of the *Concept Guide* to read more about 2-D shapes.



### Umsebenzi 6

- ◆ Buka bese uchaza izakhiwo zebhokisi.
- ◆ Beka ibhokisi ephepheni.
- ◆ Threyisa isisekelo sebhokisi.
- ◆ Chaza imigqa yomdwebo wakho.
- ◆ Yisho igama lesimo osidwebile.
- ◆ Wazi ngani ukuthi yisikwele/unxande?
- ◆ Zingaki izinhlangothi esinazo?
- ◆ Mangaki amakhona esinawo?
- ◆ Uyini umehluko phakathi kwebhokisi kanye nesikwele/unxande?

### Ukubona, ukuchaza kanye nokuqhathanisa izimo ezinhlangothi-mbili

Abafundi kumele babheke bese bedingida izinto eziningi eziyizimo ezingu-2-D ukuze bathole ukuthi yiziphi izakhi ezifanayo esimweni esithile, isb. nanoma onxantathu bengabukeka bengafani ncimishi, bonke banezinhlangothi ezintathu kanye namakhona; bonke onxande banezinhlangothi zesimo.

Sebenzisa amabhulokhi angama-athribhuthi asetafuleni lakho ukucubungula ngezimo ezingu-2-D.



### Umsebenzi 7

Eqenjini lakho, khulumani ngesimo sobuso bebhulokhi elingama-athribhuthi.

- ◆ Bheka isimo esinamakhona amane.
- ◆ Sebenzisa umunwe wakho ulandele isimo. Sibizwa ngani lesi simo?
- ◆ Bheka isimo esingenazo izinhlangothi eziqondile.
- ◆ Sebenzisa umunwe wakho ulandele isimo. Sibizwa ngani lesi simo?
- ◆ Bheka isimo esinezinhlangothi esintathu ezifana ncamashi.

Bheka amakhasi 182–189 *Umhlahlandlela Wokuqonda Isifundo* ukuze ufunde kabanzi mayelana nezimo ezingu-2-D.

## Symmetry

(30 minutes)

An object or shape has symmetry when it can be divided into two equal halves along a central line. Symmetrical patterns can be found on our bodies, in nature, in the built environment and in pictures. Line symmetry divides the shape into two identical parts. The line can be horizontal or vertical.

Refer to pages 188–191 of the *Concept Guide* to read more about symmetry.

The **practice principle:** Learners should have plenty of time to practise new skills and knowledge. When learners have regular practice in what they have already learnt, they become more competent and more confident. Learners enjoy repetition and practice. The Grade R teacher should provide repeated opportunities for learners to practise and improve new skills.

## Ukuvumelanisa

(30 imizuzu)

Into noma isimo sinokuvumelanisa lapho singahlukaniswa sibe izingxenye ezimbili ezilinganayo emgqeni ophakathi. Amaphethini anokuvumelanisa angatholakala emizimbeni yethu, emvelweni, endaweni eyakhelweyo nasezithombeni. Umugqa ovumelanisayo uhlukanisa usimo sibe izingxenye ezimbili ezifanayo. Umugqa ungaba ngovundlile noma oqondile.

Bheka amakhasi 188–191 *Umhlahlandlela Wokuqonda Isifundo* ukuze ufunde kabanzi mayelana nokuvumelanisa.

**Umgomo wokuzejwayeza:** Abafundi kufanele babe nesikhathi esiningi sokuzejwayeza amakhono nolwazi olusha. Uma abafundi bezejwayeza njalo lokho asebekufundile, baba ngcono kukho, futhi bayazethemba nakakhulu. Abafundi bajabulela ukuphindaphinda nokuzejwayeza. Othisha beBanga R kufanele bahlinzeke ngamathuba aphindaphindayo okuthi abafundi bazejwayeze futhi bathuthukise amakhono amasha.

## Session 3: Planning for teaching

2 hours

### Term 1 Content Summary (Weeks 3–5)

(40 minutes)

Appendix A: Term 1 Weekly Content Summary (Weeks 3–5) outlines the main Content Area Focus for each week, the topics to be covered, the new knowledge and practise focus for each week, and suggested activities for whole class, teacher-guided and independent group work for the week.

Read the whole class, teacher-guided and workstation activities sections and complete Activity 8.



#### Activity 8

Look at Appendix A: Term 1 Weekly Content Summary (Weeks 3–5). Answer the questions.

Questions	Week 3	Week 4	Week 5
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?			



# Iseshini 3: Ukuhlelela ukufundisa

2 amahora

## Ithemu 1 Iqoqa Lolwazi (Amasonto 3-5)

(40 imizuzu)

Isithasiselo A: Ithemu 1 Iqoqa Lolwazi Lwesonto Ngalinye (Amasonto 3-5), izeza okubalulekile Iyingxenye Yolwazi Okugxilwe Kuyo isonto ngalinye, izihloko zokufanele kudingidwe, ulwazi olusha nokuzijwayeza kugxilwe kulo isonto ngalinye, kanye nemisebenzi esikiselwe ekilasini lonke, umsebenzi weqembu olawulwa nguthisha kanye nozimele wesonto lonke.

Funda imisebenzi yekilasi lonke, eholwa uthisha kanye neyeshi sokusebenzela bese uqedela Umsebenzi 8.



### Umsebenzi 8

Bheka Isithasiselo B: Ithemu 1 Iqoqa Lokuqokethwe Lamasonto Onke (Amasonto 3-5). Phendula imibuzo.

Imibuzo	Isonto 3	Isonto 4	Isonto 5
Iyiphi Ingxenye Yolwazi Okugxilwe kuyo yesonto?			
Yiluphi ulwazi (umqondo) olusemqoka oluzofundwa abafundi?			
Yiluphi ulwazi olusha olwethulwayo?			
Imaphi amakhono asetshenziswayo?			

## Activity Guide: Term 1: Weeks 3, 4 and 5

(60 minutes)



### Video 3

Watch the video of learners discussing a poster.

1. Make a note of the questions and maths problems that the teacher presents to the learners during the poster discussion.

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2. Write down other questions that the teacher could have asked.

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Refer to Weeks 3, 4 and 5 in *Activity Guide: Term 1*. Complete Activity 9 in your group.



### Activity 9

1. Find Weeks 3, 4 and 5 in *Activity Guide: Term 1*. Answer the questions.
  - ◆ What is the Content Area Focus for each week?
  - ◆ What topics and new knowledge are taught in each week?
  - ◆ How does the 'Practise' content link to the previous week?
  - ◆ What do you need to get ready before teaching each week?
  - ◆ Read the whole class activities and small group activities.
  - ◆ Discuss in your small group how you will plan and organise your class for these three weeks of teaching.
2. Refer to Appendix A: Term 1 Weekly Content Summary (Weeks 3–5). Match the whole class and small group activities in Weeks 3, 4 and 5 of the *Activity Guide: Term 1* to the Content Summary for each week.

**Umhlahlandlela Wemisebenzi: Ithemu 1:  
Amasonto 3, 4 no-5**

(60 imizuzu)



**Ividiyo 3**

Buka ividiyo yabafundi abaxoxa ngephosta.

1. Bhala imibuzo kanye nezinkinga zezibalo uthisha azethula kubafundi ngesikhathi sokuxoxa ngephosta.

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2. Bhala phansi eminye imibuzo okungenzeka ukuthi uthisha uyibuzile.

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Bheka Isonto 3, 4 no-5 kumhlahlandlela Wemisebenzi: Ithemu 1. Qedela Umsebenzi 9 eqenjini lakho.



**Umsebenzi 9**

1. Thola Isonto 3, 4 kanye nele-5 Kumhlahlandlela Wemisebenzi: Ithemu 1 Phendula imibuzo.

- ◆ Iyiphi Ingxenye Yolwazi Okugxilwe Kuyo yesonto?
- ◆ Yiziphi izihloko nolwazi olusha okufundiswa isonto ngalinye?
- ◆ Ngabe okuqukethwe okuku-‘Zejwayeze’ kuxhumana kanjani nesonto eledlule?
- ◆ Yini okudingeka uyilungiselele ngaphambi kokufundisa isonto ngalinye?
- ◆ Funda imisebenzi yekilasi lonke kanye nemisebenzi yamaqembu amancane.
- ◆ Xoxani eqenjini lenu elincane ukuthi nizoba namaphi amasu futhi nilihlele kanjani ikilasi lenu kulawa masonto amathathu okufundisa.

2. Bheka Isithasiselo A: Ithemu 1 Iqoqa Lolwazi Lwesonto Ngalinye(Amasonto 3–5). Qondanisa ikilasi lonke nemisebenzi yeqembu elincane kuSonto 3, 4 no-5 Umhlahlandlela Wemisebenzi: Ithemu 1 Iqoqa Lengxenye Yolwazi yesonto ngalinye.



Remember that in Grade R assessment is informal and continuous. We need to observe learners throughout the day, inside and outside the classroom. 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 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: '**Check that learners are able to**'. 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.

## Closing activities

(20 minutes)



### Activity 10

**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



Khumbula ukuthi ukuhlola Kwebanga R akuhleliwe futhi kuyaqhubeka. Kumele sibheke abafundi usuku lonke, ngaphakathi nangaphandle kwekilasi. Isithonjana sehlo sisikhumbuza ukuthi kufanele sibheke abafundi ngenkathi bematasa, futhi sidinga ukulalelisisa lapho bekhuluma nathi kanye nozakwabo.

Uhlelo LweZibalo lwenzelwe ukushintshana kwamaqembu amancane esontweni kanti uthisha unaka kakhulu iqembu elilodwa ngelanga, ebukela futhi elalela ngesikhathi abafundi beqeda imisebenzi ethile. Lesi sikhathi sinika uthisha ithuba lokuqaphela ngokucophelela umfundi ngamunye abuye aqoqe ulwazi ngenqubekelaphambili yakhe.

Bheka ibhulokhi ehlikihlwe ngombala ekupheleni komsebenzi oholwa nguthisha: **'Hlola ukuthi abafundi bayakwazi uku-'**. Uthisha ubhala engqondweni ngomfundi ngamunye futhi uma abafundi sebegodukile, ubhala phansi akuqaphele encwadini yokuqaphela enendawo yamanothi omfundi ngamunye.

## Imisebenzi yokuvala

(20 imizuzu)



### Umsebenzi 10

**Izifundo ezifundiwe:** Cabanga ngalokho okufundile ngesikhathi somhlangano wokucobelelana ngolwazi bese uqedela ithebhula.

Izinto esengivele ngizenza ezisebenza kahle	Ulwazi olusha engingathanda ukuluzama



### Take back to school task

1. Read the *Concept Guide* pages that were referred to during this workshop.
2. Prepare a Space and Shape (Geometry) maths area. Take a photograph of it and bring it to the next workshop.
3. Use *Activity Guide: Term 1* to plan and implement Weeks 3–5 of the Maths Programme. When planning, think about how the guiding principles will inform your planning and teaching:
  - How will you find out what learners already know and understand? (**level principle**)
  - How will you build on the prior knowledge that learners bring from home? (**context principle**)
  - How will you ensure that the planned activities are meaningful for learners? (**context principle**)
  - How will you build active listening and speaking into your planned activities? (**interaction principle**)
4. Write a reflection of what worked well and what did not work so well. Bring your reflection notes and some examples of work that the learners did to the next workshop.

### Evaluation

Complete the Evaluation Form.



### **Umsebenzi obuyela nawo esikoleni**

1. Funda *Umhlahlandlela Wokuqonda Isifundo* amakhasi okubhekiswe kuwo ngesikhathi salo mhlango wokucobelelana ngolwazi.
2. Lungiselela indawo yezibalo yeNdawo Nesimo (Ijijomethri). Thatha isithombe sayo usilethe emhlanganweni olandelayo wokucobelelana ngolwazi.
3. Sebenzisa *Umhlahlandlela Wemisebenzi: Ithemu 1* ukhlela nokusebenzisa Amasonto 3–5 oHlelo Lwezibalo. Lapho uhlela, cabanga ngokuthi imigomo eqondisayo izokwazisa kanjani ukhlela kwakho nokufundisa:
  - Uzokuthola kanjani lokho abafundi asebekwazi vele nabakuqondayo? (**umgomo wamazinga**)
  - Uzokwakhela kanjani phezu kolwazi lwaphambilini olulethwa abafundi beluthole ekhaya? (**umgomo wesimo**)
  - Uzoqinisekisa kanjani ukuthi imisebenzi ehleliwe ibalulekile kubafundi? (**umgomo wesimo**)
  - Uzokwakha kanjani ukulalela nokukhuluma okumatasa emisebenzini yakho oyihlelile? (**umgomo wokuxhumana**)
4. Bhala umzindlo walokho okusebenze kahle nalokho okungasebenzanga kahle. Letha amanothi akho okuzindla kanye nezibonelo zomsebenzi owenziwe ngabafundi emhlanganweni olandelayo wokucobelelana ngolwazi.

### **Ukuhlola**

Gcwalisa Ifomu Lokuhlola.

## APPENDIX A: TERM 1 WEEKLY CONTENT SUMMARY (WEEKS 3-5)

### Term 1: Activity Plan

Week 3				
<b>CONTENT AREA:</b> SPACE AND SHAPE (GEOMETRY)				
<b>TOPIC:</b> Recognise, identify and name 3-D objects; describe, sort and compare 3-D objects (boxes and balls); position, orientation and views: in and out				
<b>INTRODUCE NEW KNOWLEDGE:</b> Counting objects 1-5, properties of boxes and balls, objects that roll or slide, position: in and out, big/small, biggest/smallest				
<b>PRACTISE:</b> Oral counting 1-5, reinforce number concept (1), sorting				
Whole class activities		Teacher-guided activity	Workstation activities	
Day 1	Explore properties of boxes and balls.	Counting one-to-one correspondence 1-5. Big and small game. Properties of boxes and balls. Compare boxes and balls. Sort objects that slide and roll.	Activity 1	Construct objects with boxes.
Day 2	Compare sizes of boxes and balls.		Activity 2	Big and small playdough balls – sorting.
Day 3	Explore which can slide, which can roll; big/biggest and small/smallest.		Activity 3	Paint prints with boxes or blocks.
Day 4	Discuss why objects roll and slide.		Activity 4	Build animal shelters for the farm animals with building blocks.
Day 5	Position: in and out.			
Week 4				
<b>CONTENT AREA:</b> SPACE AND SHAPE (GEOMETRY)				
<b>TOPIC:</b> Recognise, identify and name 2-D shapes (circle); compare 3-D objects and 2-D shapes; symmetry				
<b>INTRODUCE NEW KNOWLEDGE:</b> Circle, symmetry, introduce number 2				
<b>PRACTISE:</b> Oral counting 1-5, counting objects 1-5, number 1				
Whole class activities		Teacher-guided activity	Workstation activities	
Day 1	Introduce 2; number frieze story.	Naming the shape and colour of counters from the <i>Resource Kit</i> . Circle activity – properties. Number dot cards, pictures and symbols 1 and 2.	Activity 1	Playdough template – make 2.
Day 2	What is a shape? Introduce the circle.		Activity 2	Circle prints – paint and containers.
Day 3	Find circles in the classroom.		Activity 3	'Plate' template – cut and paste pictures of food.
Day 4	Count different body parts; explore symmetry in their own body.		Activity 4	Body puzzles.
Day 5	Circle (use poster) and symmetry in a picture.			



## ISITHASISELO A: ITHEMU 1 IQOQA LOLWAZI LWESONTO NGALINYE (AMASONTO 3-5)

### Ithemu 1: Uhlelo Lomsebenzi

Isonto 3				
<b>INGXENYE YOLWAZI:</b> INDAWO NESIMO (IJIYOMETHRI)				
<b>ISIHLOKO:</b> Bona, khomba bese uqamba izinto ezingu-3-D; chaza, hlunga futhi uqhathanise izinto ezingu-3-D (amabhokisi namabhola); isikhundla, umumo nokubukwa: ngaphakathi nangaphandle				
<b>YETHULA ULWAZI OLUSHA:</b> Ukubala izinto 1-5, izakhiwo zamabhokisi namabhola, izinto ezingingqikayo noma ezishelelayo, indawo: ngaphakathi nangaphandle, enkulu/encane, enkulu/encane kunazo zonke.				
<b>ZEJWAYEZE:</b> Ukubala ngomlomo 1-5, gcizelela umqondo wenombolo (1), ukuhlela				
Imisebenzi yekilasi lonke		Umsebenzi oholwa nguthisha	Imisebenzi yesiteshi sokusebenzela	
<b>Usuku 1</b>	Hlola izakhiwo zamabhokisi namabhola.	Ukubala ukuqondana kuka-1-5. Umdlalo omncane nomkhulu. Izakhiwo zamabhokisi namabhola. Qhathanisa amabhokisi namabhola. Hlunga izinto ezishelelayo nezingingqikayo	<b>Umsebenzi 1</b>	Yakha izinto ngamabhokisi.
<b>Usuku 2</b>	Qhathanisa ubukhulu bamabhokisi namabhola.		<b>Umsebenzi 2</b>	Amabhola enhlama yokudlala amakhulu namancane – ukuhlunga.
<b>Usuku 3</b>	Hlola ukuthi yikuphi okungashelela, okungagingqika; enkulu/enkulu nencane/encane kakhulu.		<b>Umsebenzi 3</b>	Penda okuphrintiwe ngamabhokisi noma amabhulokhi.
<b>Usuku 4</b>	Xoxa ngokuthi kungani izinto zizingqika futhi zishelela.		<b>Umsebenzi 4</b>	Yakha izindawo zokukhosela izilwane zasepulazini ngamabhulokhi okwakha.
<b>Usuku 5</b>	Isikhundla: ngaphakathi nangaphandle.			
Isonto 4				
<b>INGXENYE YOLWAZI:</b> INDAWO NESIMO (IJIYOMETHRI)				
<b>ISIHLOKO:</b> Bona, khomba bese usho ngegama izimo ezingu-2-D (indilinga); qhathanisa izinto ezingu-3-D nezimo ezingu-2-D; ukuvumelanisa				
<b>YETHULA ULWAZI OLUSHA:</b> Indilinga, ukuvumelanisa, yethula inombolo 2				
<b>ZEJWAYEZE:</b> Ukubala ngomlomo 1-5, ukubala izinto 1-5, inombolo 1				
Imisebenzi yekilasi lonke		Umsebenzi oholwa nguthisha	Imisebenzi yesiteshi sokusebenzela	
<b>Usuku 1</b>	Yethula u-2; indaba yefrizi yezinombolo.	Isho igama lesimo nombala wezinto zokubala eziku <i>Khithi Yezinsiza</i> . Umsebenzi wendinga – izakhiwo. Amakhadi amachashazi ezinombolo, izithombe nezimpawu 1 no-2.	<b>Umsebenzi 1</b>	Ithempulethi yenhlama yokudlala – yenza oku-2.
<b>Usuku 2</b>	Siyini isimo? Yethula indilinga.		<b>Umsebenzi 2</b>	Amaphrinti endilinga - upende neziqokathi.
<b>Usuku 3</b>	Thola izindilinga ekilasini.		<b>Umsebenzi 3</b>	Ithempulethi 'Yepuleti' – sika bese unamathisela izithombe zokudla.
<b>Usuku 4</b>	Bala izingxenye ezahlukeni zomzimba; hlola ukuvumelanisa emizimbeni yabo.		<b>Umsebenzi 4</b>	Amaphazili omzimba.
<b>Usuku 5</b>	Kokelezela (sebenzisa iphosta) nokuvumelanisa esithombeni.			

Week 5				
<b>CONTENT AREA:</b> SPACE AND SHAPE (GEOMETRY)				
<b>TOPIC:</b> Recognise, identify and name 2-D shapes (square); compare 3-D objects and 2-D shapes (box and square); direction: forwards/backwards; position: inside/outside				
<b>INTRODUCE NEW KNOWLEDGE:</b> Square, directionality (forwards/backwards), position (inside/outside)				
<b>PRACTISE:</b> Circle, oral counting 1–5, counting objects 1–5, number concept 1 and 2				
Whole class activities		Teacher-guided activity	Workstation activities	
<b>Day 1</b>	Introduce the square (vocabulary).	Oral counting/matching dot, number cards 1 and 2. Touch counting Unifix blocks, build Unifix towers. Properties of a box and a square. Feely bag (boxes and balls). 2-D square activity – tracing around a box. Position (inside/outside).	<b>Activity 1</b>	Playdough with circle and square cookie cutter to make model. Cut out squares and paste to make a picture. Sorting square-shaped and circle-shaped objects. Puzzles (minimum six pieces).
<b>Day 2</b>	Properties of the square; difference between circle and square.		<b>Activity 2</b>	
<b>Day 3</b>	Word problem ( <i>Poster Book</i> ) – square; find squares in the class.		<b>Activity 3</b>	
<b>Day 4</b>	Directionality (forwards and backwards).		<b>Activity 4</b>	
<b>Day 5</b>	Make patterns with squares, colours.			

Isonto 5			
<b>INGXENYE YOLWAZI: INDAWO NESIMO (IJIYOMETHRI)</b>			
<b>ISIHLOKO: Bona, khomba bese uqamba umumo ongu-2-D (isikwele); qhathanisa izinto ezi-3-D nezimo ezi-2-D (ibhokisi nesikwele); isiqondiso: phambili/emuva; isikhundla: ngaphakathi/ngaphandle</b>			
<b>YETHULA ULWAZI OLUSHA: Isikwele, isiqondiso (phambili/emuva), isikhundla (ngaphakathi/ngaphandle)</b>			
<b>ZEJWAYEZE: Indilinga, ukubala ngomlomo 1-5, ukubala izinto 1-5, umqondo wenombolo 1 no-2</b>			
Imisebenzi yekilasi lonke		Umsebenzi oholwa nguthisha	Imisebenzi yesiteshi sokusebenzela
<b>Usuku 1</b>	Yethula isikwele (isilulumagama).	Ukubala ngomlomo/ichashazi lokuqhathanisa, amakhadi ezinombolo 1 kanye no-2. Thinta ukubala amabhulokhi axhumekayo, yakha imibhoshongo ngawo. Izakhiwo zebhokisi nesikwele. Isikhwama sokuzwa (amabhokisi namabhola). Umsebenzi wesikwele esingu-2-D – ukulandelela eduze kwebhokisi. Isikhundla (ngaphakathi/ngaphandle).	<b>Umsebenzi 1</b> <b>Umsebenzi 2</b> <b>Umsebenzi 3</b> <b>Umsebenzi 4</b>
<b>Usuku 2</b>	Izakhiwo zesikwele; umehluko phakathi kwendilinga nesikwele.		
<b>Usuku 3</b>	Inkinga yamagama ( <i>Ibhuku Lamaphosta</i> ) – isikwele; thola izikwele ekilasini.		
<b>Usuku 4</b>	Ukuqondisa (phambili nangemuva).		
<b>Usuku 5</b>	Yenza amaphethini ngezikwele, imibala.		
			Inhlama yokudlala enendilinga kanye nesisiki-makhekhe esiyisikwele ukuze wenze imodeli. Sika izikwele bese unamathisela ukuze wenze isithombe. Ukuhlunga izinto ezimise okwesikwele nezimise okwendilinga. Amaphazili (angekho ngaphansi kwezingcezu eziyisithupha).

# Workshop 2 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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# Ifomu Lokuhlola Lomhlangano Wokucobelana Ngolwazi 2

1. Ngabe umhlangano wokucobelana ngolwazi uhlangabezene nalokho obukulindele?

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2. Yini oyifundile kulo mhlangano wokucobelana ngolwazi ekusize kakhulu?

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3. Ngabe kukhona ongakuthandanga noma okuthola kunzima ukukuqonda?

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4. Uzokusebenzisa kanjani lokho okufundile ekilasini lakho leBanga R?

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5. Ngabe unazo iziphakamiso zokuthuthukisa eminye imihlangano yokucobelana ngolwazi?

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