



English

Grade R Mathematics Improvement Programme



Workshop 4 Facilitator's Guide

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**.

The development and production of the training and classroom resources for the Grade R Mathematics and Language Improvement Project were made possible by generous project funding from the **United States Agency for International Development** and the **Zenex Foundation**.

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.

ACKNOWLEDGEMENTS

Special thanks to:

- The Gauteng Department of Education Curriculum, Teacher Education and Special Education Directorate officials for their contribution to the adaptation of our materials.
- The Western Cape Education Department (WCED) officials and teachers for their contribution to the successful implementation of the Grade R Mathematics Programme (R-Maths) in the Western Cape between 2016 and 2019.
- The R-Maths writing team: SDU staff and consultants.



The Grade R Mathematics Improvement Programme is adapted from *R-Maths*, first published in 2017 by the Schools Development Unit, University of Cape Town. Copyright of *R-Maths* is held by the University of Cape Town.

The Grade R Mathematics Improvement Programme is licensed under a Creative Commons Attribution 4.0 International Licence [Attribution-NonCommercial-ShareAlike].



This licence allows re-users to distribute, remix, adapt, and build upon the material in any medium or format for noncommercial purposes only, and only so long as attribution is given to the creator. If you remix, adapt, or build upon the material, you must license the modified material under identical terms. To view the full conditions for this licence, visit: https://creativecommons.org/licenses/by-nc-sa/4.0/

Programme conceptualisation and management: Cally Kuhne and Tholisa Matheza Translation and publishing project management: Arabella Koopman Illustrations: Jiggs Snaddon-Wood

Contents

Overview

Purpose pag	ge 4
Learning outcomes pag	ge 4
Workshop content pag	ge 4
Preparation page	ge 5
Materials pag	ge 5

Workshop content

Opening and reflection	page 6
Session 1: Data Handling	page 7
Session 2: Numbers, Operations and Relationships	page 12
Session 3: Space and Shape (Geometry)	page 17
Session 4: Planning for teaching	page 19

Appendix A: Term 1 and 2 Weekly Content Summary:	
Term 1 (Week 10) and Term 2 (Weeks 1–3)	page 23
Workshop 4 Evaluation Form	page 25

Overview

Purpose

This is the fourth 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 assist teachers to implement the Maths Programme in their classrooms. Participants will have the opportunity to reflect on their observations and explore how the **level principle** informs planning, teaching and learning. Participants will also consider the **level principle** and how to respond to learners with individual developmental and learning needs. The sessions will provide additional knowledge and understanding of teaching and learning in the Content Areas covered in Week 10 of Term 1, and Weeks 1–3 of Term 2.

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 1 Weeks 6–9
- To explore strategies to support teaching maths in Grade R
- To start to present solutions to learner progress and developmental levels
- To apply the Maths Programme principles in weekly planning
- To engage with the Maths Programme content of Term 1 Week 10 and Term 2 Weeks 1–3 (Data Handling; Numbers, Operations and Relationships; Space and Shape (Geometry))

Workshop content

٠	Opening and reflection	(1 hour)
٠	Session 1: Data Handling	(1 hour)
TE	A	
٠	Session 2: Numbers, Operations and Relationships	(1 hour)
٠	Session 3: Space and Shape (Geometry)	(1 hour)
LU	NCH	
٠	Session 4: Planning for teaching	(2 hours)

Preparation

- PPT welcome and outcomes
- Read:

Concept Guide, pages 68, 106–109

Activity Guide: Term 1, pages 10–11

Appendix A: Term 1 and 2 Weekly Content Summary

- Set out a Maths Programme *Resource Kit* on each group's table.
- PPT: Data Handling cycle.
- Prepare the story, *They pulled and they pulled*, (*Activity Guide: Term 2*, pages 32 and 100).

Materials

- Flipchart paper, kokis
- *Resource Kit*: animal counters
- *Resource Kit*: attribute blocks
- A copy of *Activity Guide: Term 2* for each participant

Opening and reflection

Facilitator's notes

- PPT: Learning outcomes of the workshop.
- Remind participants of the *Take back to school* task from the end of Workshop 3.
- Refer participants to **Activity 1** and read through the instructions. Participants complete the activity in their groups. Groups share key points with the large group.
- Remind participants of the **level principle** and the importance of taking into account the learners' different abilities and developmental levels.

Reflect on the implementation of the Maths Programme in your daily programme and complete the following activity in your group.

م Activity 1

Discuss your progress in implementing the *Take back to school* task from Workshop 3.

Refer to the observation check boxes at the end of each week in *Activity Guide: Term 1*, Weeks 6, 7, 8 and 9.

- 1. What insights did you gain while observing learners during their Mathematics focus time?
- 2. What did you find difficult about the observation during the teacher-guided activity?
- 3. Mention one new thing that is working well with your implementation of Term 1 Weeks 6–9. Have you found that the Maths Programme is assisting with teaching and learning in your Grade R class?

According to the **level principle**, differentiation means that what you teach and how you teach it needs to take into account the different abilities or developmental levels of your learners. To use this approach, you need to continuously observe and record each learner's progress and development in maths.

Session 1: Data Handling

Facilitator's notes

- This workshop focuses on teaching the content of the Maths Programme for Term 1 Week 10 and Term 2 Weeks 1–3.
- Explain that the focus of Term 1 Week 10 is on Data Handling.
- Refer participants to page 68 of the *Concept Guide*.
- Ask participants to work in groups to complete **Activity 2**. Ask one person from each group to share their ideas.

This workshop focuses on teaching the following Maths Programme content: Term 1 Week 10 and Term 2 Weeks 1–3. This session focuses on Term 1 Week 10: Data Handling.

Term 1 Content overview: Data Handling

Refer to the Data Handling Content Area on page 68 of the Concept Guide.

Working with data

Fac	ilitator's notes
٠	Start this session with the following activity.
	Ask participants who are wearing trainers to stand together.
	Ask participants who are wearing sandals to stand together.
	Ask participants who are wearing high heels to stand together.
	Ask participants who are wearing closed shoes to stand together.
	(NOTE: Change this activity according to the season and the types of shoes participants are wearing.)
	Once the participants are in groups, discuss the following questions:
	Which group has more people?
	Which group has fewer people?
	Which groups have the same number of people in them?
•	Explain that what participants have done is to sort/classify according to one particular attribute that
	is the same and that this is a very important part of Data Handling.
•	Emphasise the importance of sorting and classification in Grade R.
•	Discuss the kinds of sorting activities that learners could do in Grade R.

- PPT: Data Handling cycle and summarise content from the *Participant's Workbook*.
- Discuss each of the six steps in the Data Handling cycle.

In this session, you will learn about the Data Handling cycle as a process for solving problems. Data Handling in Grade R focuses on collecting, sorting, organising, representing and analysing information about people or things. The main reason we collect data is to answer a question or to solve a problem.



People often refer to the process of Data Handling as a cycle because the events or activities that are involved are repeated in the same sequence for each new question that is to be answered.

- 1. **Ask a question:** Learners decide what they want to find out about. This is the reason for collecting specific data or information.
- 2. **Collect data:** Learners decide they want to collect data based on the question or problem.
- 3. **Sort data:** Learners organise and sort data into groups according to the attribute. In order to answer questions and decide how to represent data that have been collected, decisions need to be made about how things could be sorted.
- 4. **Represent data:** Learners explore different ways of showing or displaying the information they have collected.
- 5. **Analyse data:** Learners describe and compare the data that is represented.
- 6. **Report on data:** Learners answer the question that was initially asked.

Objects can be sorted and classified (grouped) according to their similarities, such as colour, animals, plants. The more learners know about the properties of objects, and their similarities and differences, the more they are able to form different classification groups.



Activity Guide: Term 1, Week 10, Day 4 #5-9 (pages 91-92)

Watch the video of the class creating and analysing a pictograph to represent the weather.

Facilitator's notes

- Highlight the importance of using the same size pieces of paper, starting at the bottom and placing each piece of paper right against the previous one. Make sure there is enough height for the longest column.
- PPT: Photos of correctly placed pieces of paper in a pictograph as well as examples of incorrectly structured pictographs.
 After the activity, explain that:
 Pictographs always organise the data from the bottom to the top.

Construct a grid so that there is a one-to-one correspondence between each item in the grid. This makes it easier for learners to compare the quantities in each column.

- Reflect on the different steps of the Data Handling cycle the participants have gone through.
- Refer participants to **Activity 3**.

This next activity will take you through the six stages of the Data Handling cycle.

Activity 3

Take the following animal counters from the Maths Programme *Resource Kit*: three ducks, two chickens and one horse.

- 1. Consider this question: Are there more ducks or more chickens in the group?
- 2. Sort and collect data: Organise your animals into groups and then discuss the following with a partner:
 - Can you see if there are more ducks than chickens now?
 - How can you check?
- 3. Represent data: Place animals of the same kind one above the other in a column starting at the bottom of the grid.

- 4. Analyse and report on data: Look at your columns and discuss with a partner:
 - Are there more ducks or more chickens? How do you know?
 - Which column has more animals?
 - Which column has fewer animals?
 - Are there the same number of any kind of animal?

Refer to pages 93–94 of *Activity Guide: Term 1* and discuss how this activity is introduced to learners. Refer to pages 106–109 of the *Concept Guide* to read more about Data Handling. Notice the appropriate questions and vocabulary related to the teaching and learning of Data Handling in Grade R.

Session 2: Numbers, Operations and Relationships

Facilitator's notes

- Explain that the focus of Term 2 Weeks 1 and 2 is Numbers, Operations and Relationships. This session aims to deepen participants' knowledge and understanding of number and how it is taught and learnt in Term 2.
- Refer participants to pages 57–61 of the *Concept Guide*.
- Have participants work in groups to complete **Activity 4**. Ask one person from each group to share their ideas.

The focus of Term 2 Weeks 1 and 2 is Numbers, Operations and Relationships.

Term 2 Content overview: Numbers, Operations and Relationships



Refer to the Numbers, Operations and Relationships Content Area on pages 57–61 of the *Concept Guide*.

Activity Guide: Term 2

Fac	Facilitator's notes			
•	Hand out copies of Activity Guide: Term 2 to all participants.			
•	Ask participants to look at the Contents page and pages 4–9 to see that the 'Introduction' in Term 2			
	is the same as in Term 1.			
•	Refer participants to 'Content overview: Term 2' (pages 10–11).			
•	Participants complete Activity 5.			

Activity Guide: Term 2 provides teachers with weekly suggestions for teaching and learning Mathematics.

Look at the Contents page and pages 4–9 of *Activity Guide: Term 2*. You will see that the 'Introduction' in Term 2 is the same as in Term 1.

In Activity 4 you identified the number concepts to be covered in Term 2. In Activity 5 you will make links between these concepts and the New knowledge for the first two weeks of *Activity Guide: Term 2*.



Refer to 'Content overview: Term 2' (*Activity Guide: Term 2*, pages 10–11).

- 1. What new knowledge is introduced to learners in the Numbers, Operations and Relationships Content Area?
- 2. Go back to Activity 4 and highlight or circle the concepts covered.

Understanding numbers

Facilitator's notes

- Review the routine that the participants have used to introduce numbers 1, 2 and 3 to learners in their classes.
- Ask participants to reflect on their experiences in the classroom and to complete **Activity 6**.
- Explain that in Term 2 they will be focusing on numbers 4 and 5, using this same routine to introduce the numbers.
- Read through the whole class activities that focus on number 4 in Week 1: *Activity Guide: Term 2:* page 13 (Day 1 #4), page 14 (Day 2 #5), page 15 (Day 3 #4), page 16 (Day 4 #4 and Day 5 #4).

In Term 1, the numbers 1, 2 and 3 were taught. You used the same routine for each number taught, adding one more to the number each time a new number was introduced. In Term 2 Week 1, the focus is on the concept of number again. Learners are introduced to the number 4, using the same routine as for numbers 1, 2 and 3.

م م Activity 6

Refer to the whole class activities that focus on number 4 in Week 1: *Activity Guide: Term 2*: page 13 (Day 1 #4), page 14 (Day 2 #5), page 15 (Day 3 #4), page 16 (Day 4 #4 and Day 5 #4).

- 1. Discuss how the number '4' is introduced.
- 2. Think about your own classroom practice and how this routine has been working so far. Complete the table.

Activity	What worked well?	What did not work so well?
Telling the story and building		
up the number frieze		
Dramatising the story		
Collecting objects for the		
maths area		
Matching objects to pictures,		
dot cards, number symbols and number words		
Using the Poster Book		

Maths vocabulary

they encourage learners to use maths vocabulary.

Fac	cilitator's notes
٠	Discuss how the participants model using the correct maths vocabulary in the classroom.
•	Point out that this is an important part of the interaction principle , and that by using it themselves,

Part of learning new concepts involves new language. Learners need the vocabulary to talk and think about maths concepts (**interaction principle**). You can encourage learners to use maths vocabulary by using it yourself when you speak to them about maths concepts and by rephrasing what they say into maths language.

Money

Facilitator's notes

- Discuss what learners in Grade R need to learn about money. Emphasise that the focus in Grade R is on developing an awareness of what South African coins look like, but not on the value of the coins.
- Invite participants to share the kinds of activities they provide in their Grade R classrooms to help learners understand the purpose of money in their everyday lives.
- After Activity 7, discuss the kinds of open-ended questions that teachers can ask to help learners learn the purpose of money such as:
 What do we use money for?
 Do we always pay with money? How else could we pay for things that we buy?

In Term 2 Week 2 learners are introduced to money. Learners in Grade R are developing an awareness about the features of money and they need opportunities to explore what real South African coins look like.

Activity 7 focuses on helping learners to recognise the similarities and differences between coins: their size, shape and the animals on the coins.



1. What questions could you ask learners to help them recognise the different features of these coins?

2. What new vocabulary will you introduce?

Facilitator's notes

- Refer participants to the whole class activities and small group activities on pages 21–26 of *Activity Guide: Term 2*.
- Have participants work in groups to complete **Activity 8**. Ask one person from each group to report back on their discussion.
- Draw attention to the money templates (*Activity Guide: Term 2*, pages 108–109). Ask for suggestions of how these could be used.

Learners first need to be able to identify and name coins before they are ready to understand their value.

Learners need to be exposed to the purpose of money. Teachers can help learners understand that money is used to buy things like food and clothes and to do different things like travelling by taxi or bus. Expose learners to money and its purpose by setting up a play-shop with pretend coins and notes and items that can be bought.

Refer to the whole class activities and small group activities that focus on money on pages 21–26 of *Activity Guide: Term 2*. In your group, complete Activity 8.



1. What money concepts are being taught and learnt in the whole class activities?

Recognising and matching South African coins, sorting according to colour and size.

2. How are learners encouraged to explore the purpose of money?

The shopping table teaches learners that we pay money for items.

3. How does the teacher consolidate this new knowledge in the small group activities?

Sorting and matching coins, drawing pictures of the coins.

Session 3: Space and Shape (Geometry)

Facilitator's notes

- This session extends the discussion on Space and Shape (Geometry) from Workshop 3 and should not take longer than the suggested time as this is not new knowledge.
- Explain that the focus of Term 2 Week 3 is Space and Shape (Geometry).
- Refer participants to pages 63–65 of the *Concept Guide*.
- Have participants work in groups to complete **Activity 9**. Ask one person from each group to share their ideas.

The focus of Term 2 Week 3 is Space and Shape (Geometry).

Term 2 Content overview: Space and Shape (Geometry) Refer to pages 63–65 of the *Concept Guide*.



1. What Space and Shape (Geometry) concepts are covered in Term 2?

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

Triangles

Facilitator's notes

- Refer participants to Day 2 #4 on page 30 of *Activity Guide: Term 2*.
- Ask participants to complete **Activity 10** in their small groups. Participants share their responses in the large group.
- Discuss the importance of giving learners opportunities to sort and group different shapes

In Term 2 Week 3, learners continue their exploration of two-dimensional shapes as they describe, sort and compare them. In this session you will deepen your understanding of the properties of triangles.

Refer to Day 2 #4 on page 30 of *Activity Guide: Term 2* and then complete Activity 10 in your group.



'*How is the triangle different to other shapes in the classroom?*' What answers would you expect from your learners?

It has three sides/lines/corners.

When learners are given opportunities to sort and group different shapes, they need to focus on the properties of the shapes to make their decisions, e.g. the number of sides, whether the sides are straight or curved and the number of corners.

	_		
Faai	itata	n'a n	ataa
			0000

- Explain that the Maths Programme uses stories to teach maths concepts in a meaningful way.
- Dramatise the story, *They pulled and they pulled*, from Week 3 (*Activity Guide: Term 2*, pages 32 and 100).
- Ask participants to complete **Activity 11** in their groups.
- As each group reports back, list the questions they suggest on flipchart paper.

Stories are a great way to introduce shape concepts to learners. Listen to the story, *They pulled and they pulled,* from Week 3 (*Activity Guide: Term 2,* pages 32 and 100) as told by your facilitator and then complete Activity 11 in your group.



1. What questions could you ask learners to help them learn more about the properties of triangles?

Examples:

What can you tell me about the lines/corners/points of this shape? How do you know it is a triangle? What is the same/different about the triangle and the square?

2. Are most of these questions open-ended or closed questions?

Note: Use *Activity Guide: Term 1* and *Term 2* to help you plan for teaching these weeks. The ideas and activity suggestions are a guide and resource. Set up the maths area with the content focus for each week.

Session 4: Planning for teaching

Facilitator's notes

- Refer participants to Appendix A: Term 1 and 2 Weekly Content Summary: Term 1 (Week 10) and Term 2 (Weeks 1–3).
- Read the whole class, teacher-guided and workstation activities sections.
- Have participants work in groups to complete **Activity 12**.

ON Video 2

Activity Guide: Term 2, Week 1 (page 17)

Watch the video of the teacher-guided activity. Observe how the teacher uses questions to prompt and guide the learners during the activity.

Discuss how you have managed your teacher-guided activities in Term 1. Have you faced any challenges? If so, what strategies have you used to resolve them?

Terms 1 and 2 Content Summary (Term 1 (Week 10) and Term 2 (Weeks 1–3))

Appendix A: Term 1 and 2 Weekly Content Summary: Term 1 (Week 10) and Term 2 (Weeks 1–3) 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.

م الله Activity 12

Look at Appendix A: Term 1 and 2 Weekly Content Summary: Term 1 (Week 10) and Term 2 (Weeks 1–3). Answer the questions.

Questions	Week 10	Week 1	Week 2	Week 3
	Term 1	Term 2	Term 2	Term 2
What is the Content	Data Handling	Numbers,	Numbers,	Space and Shape
Area Focus for the		Operations and	Operations and	(Geometry)
week?		Relationships	Relationships	

What are the key	Collecting	Number symbols	Money	Position
what are the key	sorting and	and number	Ordinal numbers	direction and
concepts that	classifying data	words	Equal groups	views
learners will be	Doproconting	Ordering	Equal groups	2 Dichapos
learning?	data	numborg	Counting objects	2-D shapes
0	uala Demonstration and	numbers		
	Reporting on			
	data			
What new	Collect, sort	More than, fewer	South African	Oral counting 1–
knowledge is	and represent	than, equal to	coins	15
introduced?	collections of	Number 4	Ordinal numbers	Counting objects
muouuccui	objects		first to fourth	1-7
	Discuss and		Making equal	Position:
	report on		groups the same	underneath
	sorted		to 4	
	collections of		Counting objects	
	objects		1-6	
What skills are	Oral counting	Oral counting 1–	Oral counting 1–	Position: next to,
heing practised?	1-10	10 and 5–1	10 and 5–1	between, in front
being practiseus	Counting	Counting objects	Counting objects	of, behind, on top
	objects 1–5	1-5	1-5	Direction:
	Sequencing	Sequencing	Sequencing	forwards,
	numbers 1–3	numbers 1–3	numbers 1–4	backwards
	Number	Reinforcing	Reinforcing	Number concept
	concept 1–3	number concept	number concept	1-4
	Before and	1–3	1-4	Sequencing
	after		Biggest to	numbers 1–4
	Conving		smallest	Count backwards
	natterns		smallest to	5_1
	Problem		biggest	Shapes: circle
	solving		DIEECSI	square triangle
	30171115			square, crangle
1	1		1	1

Activity Guide: Term 1: Week 10 and Activity Guide: Term 2: Weeks 1-3

Refer to Week 10 in *Activity Guide: Term 1* and Weeks 1, 2 and 3 in *Activity Guide: Term 2*. Complete Activity 13 in your group.



Find Week 10 in *Activity Guide: Term 1*. Answer the questions.

- 1. What is the Content Area Focus for the week?
- 2. What topics and new knowledge are taught in this week?
- 3. How does the 'Practise' content link to the previous week?
- 4. What do you need to get ready before teaching this week?

- 5. Read the whole class activities and small group activities.
- 6. Discuss in your small group how you will plan and organise your class for this week of teaching.
- 7. In your small group refer back to Week 10 in Appendix A. Match the whole class activities and small group activities in Week 10 of Activity Guide: Term 1 to the Weekly Content Summary in Appendix A.

Activity 14

Find Weeks 1, 2 and 3 in *Activity Guide: Term 2*. Answer the questions.

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

• Remember that the eye in the shaded block at the end of the teacher-guided activities (Check that learners are able to) 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.

Make a mental note of each learner and once the learners have left for the day, write down your observations in a dedicated observation book that has space for each learner's notes.

Closing activities

Facilitator's notes

- Lessons learnt: Ask participants to think about what they have learnt during the workshop and to • complete Activity 15 individually.
- Take back to school task: Read through this task. Ask if there is anything that is not clear and that ٠ requires more explanation. Draw attention to how observation and assessment records and systems must be in place by this stage of the year. Ask how participants are filing these. Ask for examples to be brought to Workshop 5.
- **Evaluation:** Hand out copies of the Workshop Evaluation Form and have participants complete the ٠ form.
- Next workshop: Give dates for the next workshop and close the workshop.



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. Continue with your observations to build up a complete picture of each learner.
- 2. During the teacher-guided activities complete the *Check that learners are able to* section (after the teacher-guided activity in each week) for each learner being observed.
- 3. Make a copy of the Exemplar Record of Continuous Assessments in *Activity Guide: Term 1* (pages 96–97).
- 4. Use the information collected in your observation notes to date and record each learner's development. (Remember that patterns of development need to be recorded over time.)
- 5. Use *Activity Guide: Term 1* (Week 10) and *Activity Guide: Term 2* (Weeks 1–3) to plan and implement Term 1 Week 10 and Term 2 Weeks 1–3 of the Maths Programme, including creating a maths area with a focus on the concept for each week.
- 6. Write an evaluation of what worked well, what did not work so well and what you could do differently to improve teaching and learning. Bring your evaluation report to the next workshop.

Evaluation

0

Complete the Evaluation Form.

APPENDIX A: TERM 1 AND 2 WEEKLY CONTENT SUMMARY: TERM 1 (WEEK 10) AND TERM 2 (WEEKS 1–3) Term 1: Activity Plan

Week 10				
CON	CONTENT AREA: DATA HANDLING			
TOF	TOPIC: Collect and sort objects, represent sorted collections of objects, discuss and report on sorted collections of objects			
INTRODUCE NEW KNOWLEDGE: Collect, sort and represent collections of objects (weather); discuss and report on sorted collections; create own pattern				
PRACTISE: Oral counting 1–10, counting backwards from 5, sequencing numbers 1–3, counting objects 1–5, number concept 1–3, copy patterns, problem-solving techniques				
Whole class activities		Teacher-guided activity	Worksta	ition activities
Day 1	Sorting and classifying, waste items.	Oral counting.	Activity 1	Sorting waste.
Day 2	Data collection, sorting clothing items.	Touch and count – one-to-one	Activity 2	Sorting colours.
Day 3	Sorting and classifying, group game.	correspondence.	Activity 3	Sorting tray, natural items.
Day 4	Use data collected from the weather	Sorting and classifying activities –	Activity 4	Copy pattern using concrete objects and then create own
	discussions, represent and analyse how	animals.		pattern.
	many days were sunny, raining etc.	Representing and interpreting data.		
Day 5	Weather data collection, representing and			
	analysing.			

Term 2: Activity Plan

Week 1				
CONTE	CONTENT AREA: NUMBERS, OPERATIONS AND RELATIONSHIPS			
TOPIC	: Recognise number symbols and number wo	rds, describe, order and compare numbers		
INTRO	INTRODUCE NEW KNOWLEDGE: More than/fewer than/equal to, introduce number 4			
PRACTISE: Oral counting 1–10, sequencing numbers 1–3, counting objects 1–5, reinforce number concept 1–3				
Whole class activities		Teacher-guided activity	Workstation activities	
Day 1	Introduce 4 (giraffes).	Counting objects 1–5.	Activity 1	Playdough mat 4 (as for previous numbers).
Day 2	Introduce more than/less than/equal	Matching objects to number dot, symbol	Activity 2	Number ordering puzzle activity to 4 (forms a picture).
	to, maths table.	and word cards 1–4.	Activity 3	Matching number symbols, words and concrete objects to 4.
Day 3	Reinforce 1–4, dot cards and ordering.	Arrange counters to match dot cards. Practise more than, fewer than, equal.	Activity 4	Number puzzles (no number words).
Day 4	Reinforce 1–4, Unifix blocks and hoops.	Write number 4 (as with numbers 1		
Day 5	Reinforce number 4, Poster 6.	to 3).		

Week 2				
CON	CONTENT AREA: NUMBERS, OPERATIONS AND RELATIONSHIPS			
TOP	TOPIC: Money: develop an awareness of South African coins			
INT	INTRODUCE NEW KNOWLEDGE : South African coins, ordinal numbers first to fourth, making equal groups the same to 4, counting objects 1–6			
PRACTISE: Oral counting 1–10 and 5–1, sequencing numbers 1–4, reinforce number concept 1–4, biggest to smallest/smallest to biggest				
Whole class activities		Teacher-guided activity	Workst	ation activities
Day 1	Introduce South African coins (cents and rands), Poster 7.	Number concept 1–4. Estimation.	Activity 1 Activity 2	Make own coin (give a circle shape). Number caterpillar – sequencing numbers 1–4.
Day 2	Maths table – shopping, ordinal numbers first to fourth.	Shake and break with 4. South African coins – match coins to	Activity 3 Activity 4	Draw or paste objects to match numbers 1–4. Posting activity using number and colour 1–4.
Day 3	Matching number/dot cards and number words.	'goods in shop'. Use cut-out coins; sorting, ordering, matching.		
Day 4	Ordering number 1–4, shopping.			
Day 5	Problem solving up to 4 (Poster 7).	Mare equal groups to 4 - using counters.		

		Week 3		
CONTENT AREA: SPACE AND SHAPE (GEOMETRY)				
TOPIC	TOPIC: Position, orientation and views; describes sorts and compares 2-D shapes			
PRACTISE: Oral counting 1–10 and 5–1; sequencing numbers 1–4; reinforce number concept 1–4; count backwards 5–1; shapes: circle, square, triangle; position: in front of, behind, on top, between, next to; direction: forwards, backwards				
Whole class activities		Teacher-guided activity	Worksta	tion activities
Day 1	Positions, shape game.	Counting.	Activity 1	Colour triangles.
Day 2	Reinforce the triangle.	Use shapes to show correct number (1-4).	Activity 2	Carrot activity (cut out triangles and add
Day 3	Position (next to, between, in front of, behind, on top, underneath).	Position: next to, between, in front of, behind, on top, underneath. Direction: forwards, backwards.	Activity 3	correct number of leaves). Sorting tray – according to colour, shape or
Day 4	Reinforce all the shapes done, shape story.		Activity 4	size (one attribute). Building towers with construction blocks.
Day 5	Following direction: How do I get to? Poster 9. Orientation and views using a toy car.			

Workshop 4 Evaluation Form

1. 	Did the workshop meet your expectations?
2.	What did you learn in this workshop that helped you the most?
3.	Was there anything that you did not like or had difficulty understanding?
4.	How will you apply what you have learnt in your Grade R classroom?
5. 	Do you have any suggestions for improving further workshops?