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GROWING GAUTENG TOGETHER

IsiXhosa/English

INkqubo yeMathematika yokuPhucula yeBanga R Grade R Mathematics Improvement Programme



INdibano yoCweyo 11 • Workshop 11
Incwadi yokuSebenzela yoMthathinxaxheba • Participant's Workbook

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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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Programme conceptualisation and management: Cally Kuhne and Tholisa Matheza

Translation and publishing project management: Arabella Koopman

Translation co-ordination (Nguni languages): Pumeza Ngobozana

Translation: Sebolelo Mokapela

Editing (isiXhosa): Pumeza Ngobozana

Illustrations: Jiggs Snaddon-Wood

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Ukusungulwa nokuphathwa kwenkqubo: Cally Kuhne kunye noTholisa Matheza

Ulawulo lwenguqulelo nopapasho lweprojekthi: Arabella Koopman

Ulungelaneliso lwenguqulelo (iilwimi zesiNguni): Pumeza Ngobozana

Umgququli: Sebolelo Mopakela

Umhleli (isiXhosa): Pumeza Ngobozana

Imizobo: Jiggs Snaddon-Wood

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Overview

Purpose

This is the eleventh 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 consolidate the understanding of the Maths content taught in Grade R and to continue assisting teachers to implement the Maths Programme in their classrooms. Participants will have the opportunity to reflect on their implementation of the Maths Programme and discuss their planning, teaching and assessment. They will also consider learner progress, and individual developmental and learning needs. Participants will reflect on appropriate assessment strategies for capturing learner progress. The workshop explores the content for Term 4 Weeks 4–6 and its classroom implementation.

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

Learning outcomes

- ◆ To deepen understanding of Grade R Mathematics content
- ◆ To reflect on classroom implementation of the Maths Programme
- ◆ To identify challenges and find solutions to implementing the Maths Programme
- ◆ To reflect on informal forms of assessment in Grade R
- ◆ To plan the Maths Programme content to be taught in Term 4 Weeks 4–6

Workshop content

- ◆ Opening and reflection (1 hour)
 - ◆ Session 1: Review of the Maths Content Areas (1 hour)
- TEA
- ◆ Session 2: Maths Content Area presentations (1 hour)
 - ◆ Session 3: Maths Content Area presentations (continued) (1 hour)
- LUNCH
- ◆ Session 4: Planning for teaching (1½ hours)
 - ◆ Closing activities (30 minutes)

Amagqabantshintshi

Injongo

Le yeyeshumi elinanye kwezilishumi elinambini iindibano zocweyo zeNkqubo yeMathematika yokuPhucula yeBanga R (iNkqubo yeMathematika) neyinxalenye yeProjekthi yeBanga R yokuPhucula yeMathematika noLwimi yeSebe leMfundo laseGauteng (Gauteng Department of Education (GDE)).

Injongo yale ndibano yocweyo kukuyondelelanisa ingqiqo engomxholo weMathematika efundiswa kwiBanga R nokuqhubeka incedisa ootitshala ukuba baphumeze iNkqubo yeMathematika eziklasini zabo. Abathathinxaxheba bazakuba nethuba lokucamngca ngokuphumeza kwabo iNkqubo yeMathematika baze baxoxe ngocwangciso, ukufundisa nokuhlola kwabo. Bazakuphinda baqwalasele nenkqubela yabafundi, ukukhula komfundi ngamnye kunye neemfuno zokufunda. Abathathinxaxheba bazakucamngca ngeendlela ezifanelekileyo zokuhlola ezizezokurekhoda inkqubela yomfundi. Indibano yocweyo iphonononga umxholo weKota 4 iiVeki 4–6 kunye nokuphunyezwa kwawo eklasini.

Ubhekiso kwiiNkalo zomXholo weMathematika weBanga R luthathwe *kwiNkcazelo yePolisi yeKharityhulam nokuHlola (CAPS): IBanga R iMathematika (idrafti yokugqibela)*, 2011, iSebe leMfundo esiSiseko, yaseMzantsi Afrika.

Iziphumo zokufunda

- ◆ Ukumilisela ingqiqo yomxholo weMathematika yeBanga R
- ◆ Ukucamngca ngokuphunyezwa kweNkqubo yeMathematika eklasini
- ◆ Ukwalatha imingeni kwanokufumana izisombululo ekuphunyezweni kweNkqubo yeMathematika
- ◆ Ukucamngca ngeendlela ezingekho sikweni zokuhlola kwiBanga R
- ◆ Ukucwangcisa umxholo weNkqubo yeMathematika ozakufundiswa kwiKota 4 iiVeki 4–6

Umxholo wendibano yocweyo

- ◆ Ukuvula nocamngco (1 iyure)
- ◆ Iseshoni 1: Ukuhlaziywa kweNkalo yoMxholo weMathematika (1 iyure)

ITI

- ◆ Iseshoni 2: Ukunikezelwa kwentetho ngeNkalo yoMxholo weMathematika (1 iyure)
- ◆ Iseshoni 3: Ukunikezelwa kwentetho ngeNkalo yoMxholo weMathematika (kuyaqhubeka) (1 iyure)

ISIDLO SASEMINI

- ◆ Iseshoni 4: Ukucwangcisa ukufundisa (1½ iiyure)
- ◆ Imisebenzi yokuqukumbela (30 imizuzu)

Opening and reflection

1 hour

When we think about and discuss what worked and how we dealt with any challenges that arose during our teaching, it allows us to recognise our strengths and weaknesses. Reflection on our practice as teachers helps us gain new insights into ourselves and our teaching. Reflective practice allows us to learn from our experiences and encourages us to work with our colleagues to share ideas that improve our teaching.

The process of self-reflection is a cycle that needs to be repeated.

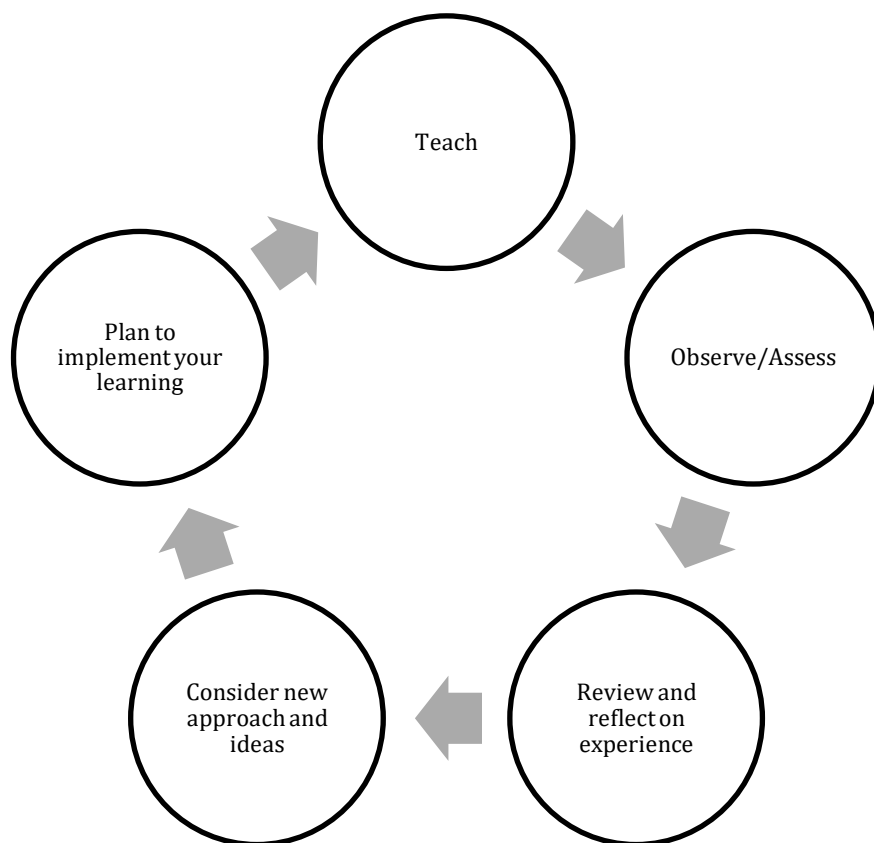


Figure 1: Stages of the reflection cycle

The process of self-reflection contains the following stages:

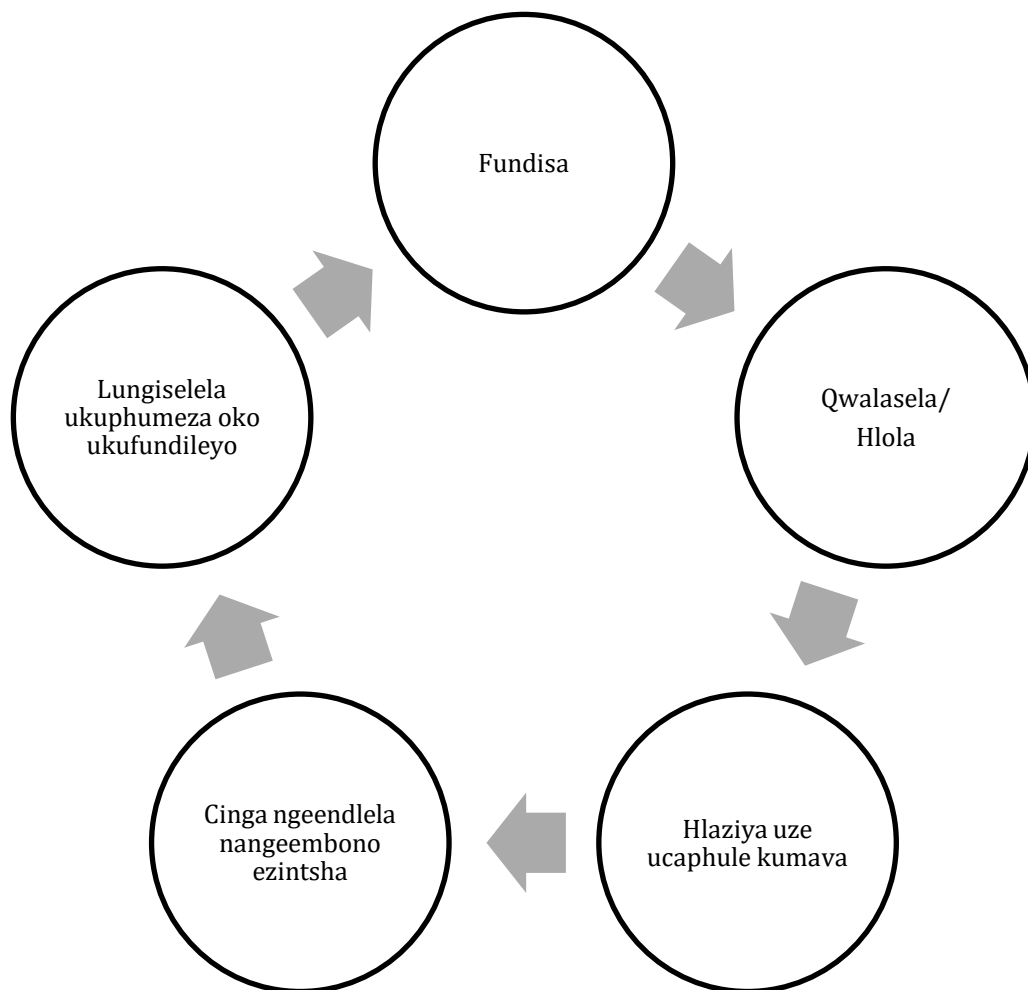
- ◆ Teach.
- ◆ Observe/assess.

Ukuvula nocamngco

1 iyure

Xa sicinga kwaye sixoxa ngoko kusebenzileyo kwanokuba sihlangebene njani na nemingeni esibe nayo ngexesha lokufundisa kwethu, oko kusenza sikwazi ukubona izakhono kwanokusilela kwethu. Ucamngco ngendlela esiqhuba ngayo singootitshala lusinceda ukuba sibe nokufumana iimbono ezintsha ngathi kwanendlela esifundisa ngayo. Ukusoloko sicamngca kusivumela ukuba sikwazi ukufunda kumava ethu kwaye kusikhuthazela ukuba sisebenzisane noogxa bethu ngokwabelana ngeembono zokuphucula indlela esifundisa ngayo.

Inkqubo yokuzihlola ingumjikelo ekufanele uphindaphindwe.



Umfanekiso 1: Amanqanaba omjikelo wokuzihlola

Le nkqubo yokuzihlola iqulethe la manqanaba alandelayo:

- ◆ Fundisa.
- ◆ Qwalasela/Hlola.

- ◆ Review and reflect on how effective our teaching was, whether the lesson went well, what challenges emerged and whether the learners benefitted.
- ◆ Use the above information to consider new ways of teaching that could improve the quality of teaching and learning.
- ◆ Plan and implement new ideas and/or strategies in the classroom.

The cycle repeats after each teaching experience.

Reflection in implementation

The *Take back to school task* from Workshop 10, required you to:

- ◆ Plan and implement Term 4 Weeks 1–3 of the Maths Programme.
- ◆ Write comments in the book that you use to keep track of each learner’s progress (learner observation book), and to use the ‘**Check that learners are able to**’ observation list during each of the teacher-guided activities to guide your observations and comments.
- ◆ Make notes of what worked well, what did not work well and how you resolved any challenges during your implementation of Term 4 Weeks 1–3.
- ◆ Bring your learner observation book and the notes you made when reflecting on each day’s teaching to Workshop 11.



Activity 1

1. In your small group, consider each of the stages in the reflection cycle and discuss the *Take back to school task* from Workshop 10.
 - ◆ How successful was your planning and teaching in Term 4 Weeks 1–3?
 - ◆ Identify challenges and the strategies you used to resolve them.

- ◆ Hlaziya uze ucamngce ngendlela ekube yimpumelelo ngayo ukufundisa, nokuba isifundo eso siqhube kakuhle kusini na, yeyiphi imingeni ethe yakho kwanokuba abafundi baye bazuza kusini na.
- ◆ Sebenzisa olu lwazi lungasentla ukuqwalasela iindlela ezintsha zokufundisa ezinokuphucula izinga lokufundisa nelokufunda.
- ◆ Cwangcisa uze uphumeze iimbono kunye/okanye iindlela ezintsha eklasini. Umjikelo uyaphindwa emva kwesifundo ngasinye.

Ucamngco ngokuphunyezwa

Umsebenzi ekubuyelwa nawo esikolweni othathwe kwiNdibano yoCweyo 10, ubufuna ukuba wenze oku kulandelayo:

- ◆ Cwangcisa uze uphumeze iKota 4 iiVeki 1–3 zeNkqubo yeMathematika.
- ◆ Bhala amanqaku encwadini oyisebenzisela ukubhala inkqubela yomfundi ngamnye (incwadi yoqwalaselo lomfundi), uze usebenzise uluhlu lwengqwalasela phantsi ko-‘**Qwalasela ukuba abafundi bayakwazi uku-**’ ngesihlandlo ngasinye semisebenzi ekhokelwa ngutitshala ukuze akhokele ingqwalasela kwanamanqaku owenzayileyo.
- ◆ Yenza amanqaku ngoko kusebenze kakuhle kunye noko kungaqhubanga kakuhle kwanendlela othe wahlangabezana neningeni leyo ngayo ngelixa lokuphunyezwa kweKota 4 iiVeki 1–3.
- ◆ Yiza nencwadi yakho yoqwalaselo kunye namanqaku owenzileyo xa ubucamngca ngosuku ngalunye lokufundisa kwiNdibano yoCweyo 11.



Umsebenzi 1

1. Kumaqela enu amancinci, qwalaselani inqanaba ngalinye lomjikelo wokuzihlola nize nixoxe ngo*Msebenzi ekubuyelwa nawo esikolweni* wasekupheleni kweNdibano yoCweyo 10.

- ◆ Kube yimpumelelo kangakanani ukulungiselela kwakho kwanokufundisa kwiKota 4 iiveki 1–3?
- ◆ Balula imingeni kwaneendlela ozisebenzisileyo zokuyisombulula.

- ◆ Have you been able to observe each learner and record his/her progress? Give reasons and examples to support your answer.
-
-

2. Imagine that you have been asked by your Department Head to talk to the Grade R teachers at a cluster meeting.
 - ◆ Refer to the reflection cycle in Figure 1.
 - ◆ Draw the cycle on flipchart paper and add notes next to each stage of the cycle.
 - ◆ Your group will present the main points of your discussion to the whole group.

 **Video 1**

Watch the video of a group of teachers reflecting on their teaching and listen to their opinions about reflective practice.

1. Do you agree with their ideas about reflective practice? Explain your answer.
-
-

2. Does reflective practice increase your understanding of your teaching? Explain your answer.
-
-

3. Does reflective practice increase your understanding of learning in your class? Explain your answer.
-
-

4. Does reflective practice increase your engagement with colleagues? Explain your answer.
-
-

- ◆ Ingaba ukwazile ukuqwalasela umfundi ngamnye uze urekhode inkqubela yakhe? Nika izizathu nemizekelo ukuxhasa impendulo yakho.
-
-

2. Cinga ngokucelwa kwakho yiNtloko yeSebe ukuba uyokuthetha nootitshala beBanga R kwindibano yeklasta.
 - ◆ Buyela kumjikelo wokuzihlola okuMfanekiso 1.
 - ◆ Zoba umjikelo kwiphepha lefliptshathi uze ufake amanqaku ecaleni kwenqanaba ngalinye lomjikelo.
 - ◆ Iqela lakho liza kunikezela ngamanqaku angundoqo engxoxo yenu kwiqela liphela.



Ividiyo 1

Bukela ividiyo yeqela lootitshala becamngca ngeendlela abafundisa ngazo uze umamele iimbono zabo ngokuziqhelanisa nokuzihlola.

1. Ingaba uyavumelana neembono zabo ngokuziqhelanisa nokuzihlola? Cacisa impendulo yakho.
-
-

2. Ingaba ukuziqhelanisa nokuzihlola kuyayandisa ingqiqo yakho ngokufundisa? Cacisa impendulo yakho.
-
-

3. Ingaba ukuziqhelanisa nokuzihlola kuyayandisa ingqiqo yakho yokufunda eklasini? Cacisa impendulo yakho.
-
-

4. Ingaba ukuziqhelanisa nokuzihlola kuyakwandisa ukuphefumlelana noogxa bakho? Cacisa impendulo yakho.
-
-

Session 1: Review of the Maths Content Areas

1 hour

In Sessions 1, 2 and 3 we will review our understanding and knowledge of the five CAPS Grade R Mathematics Content Areas and related topics. We will also discuss the teaching and approaches that form part of the Maths Programme we have been implementing.



Activity 2

1. Your group will prepare a presentation on a topic that the facilitator gives you.
 - ◆ You will have access to flipchart paper, kokis, scissors, glue and items from the *Resource Kit*. You will also be allocated a space in which to set up your presentation.
 - ◆ You need to refer to the *Concept Guide* and *Activity Guides* in your presentation.
2. Your presentation needs to include:
 - ◆ an overview of the content and how this is developed in Grade R
 - ◆ resources used to model concepts and represent ideas
 - ◆ appropriate learner activities for consolidating and applying new knowledge
 - ◆ areas of concern when teaching the topic
 - ◆ a table and wall display
 - ◆ examples of how learners would solve problems.
3. Your group will facilitate the discussion and answer questions from the whole group.

Notes:

Iseshoni 1: Ukuhlaziywa kweNkalo yoMxholo weMathematika

1 iyure

KwiiSeshoni 1, 2 no3 sizakuqwalasela ingqiqo nolwazi lwethu ngeNkalo zoMxholo weMathematika yeBanga R zikaCAPS ezintlanu kunye nezihloko eziphathelelene nazo. Sizakuxoxa ngokufundisa nangeendlela eziyinxalenye yeNkqubo yeMathematika ebesiziphumeza.



Umsebenzi 2

1. Iqela lakho lizakulungiselela intetho engesihloko eso nisinikwe ngumbhexeshi.
 - ◆ Nizakufumana iphepha lefliptshathi, iikhoki, isikere, iglu nezinye izinto ezithathwe kwi*Kiti yeziXhobo*. Nizakunikwa nendawo enizakubonisa intetho yenu kuyo.
 - ◆ Kuzakufuneka nicaphule kwi*Sikhokelo seeKhonsepthe* kunye nakwi*Sikhokelo semiSebenzi* kwintetho yenu.
2. Intetho yenu kufuneka iquke:
 - ◆ amagqabantshintshi ngomxholo kunye nendlela ekuphuhliswa ngayo oku kwiBanga R
 - ◆ izixhobo ezisetyenzisiweyo ukumela iikhonsepthe kwanokuveza iimbono
 - ◆ imisebenzi yabafundi efanelekileyo yokuyondelelanisa kwanokusebenzisa ulwazi olutsha
 - ◆ iinkalo ezixhalabisayo xa ufundisa isihloko eso
 - ◆ itafile kunye nendawo yokuxhoma eludongeni
 - ◆ imizekelo yendlela abafundi abazakuzisombulula ngayo iingxaki.
3. Iqela lakho lizakuququzelela ingxoxo lize liphendule imibuzo esuka kwiqela elikhulu.

Amanqaku:

Session 2: Maths Content Area presentations

1 hour

Each group will have 15 minutes to present their topic and respond to questions from the whole group.

Iseshoni 2: Ukunikezelwa kwentetho ngeNkalo yoMxholo weMathematika

1 iyure

Iqela ngalinye lizakuba nemizuzu eli-15 lokunikezela ngesihloko salo kwanokuphendula imibuzo evela kwiqela lilonke.

Session 3: Maths Content Area presentations (continued)

1 hour

Each group will have 15 minutes to present their topic and respond to questions from the whole group.

Ishoni 3: Ukunikezelwa kwentetho ngeNkalo yoMxholo weMathematika (kuyaqhubeka) 1 iyure

Iqela ngalinye lizakuba nemizuzu eli15 lokunikezela ngesihloko salo kwanokuphendula imibuzo evela kwiqela lilonke.

Session 4: Planning for teaching

1½ hours

This workshop session prepares participants for implementing Term 4 Weeks 4–6 and provides an opportunity for small groups to plan ahead. It is important to:

- ♦ address differences in learners’ levels of progress
- ♦ support those learners who need additional assistance
- ♦ provide enrichment activities for more advanced learners.

The goal is to ensure that all learners are competent in the Grade R Mathematics content and are well prepared for Grade 1.



Activity 3

1. In your group, complete the planning templates for Term 4 Weeks 4–6 (Appendix A).
2. Discuss how you will plan for and manage learners who have different levels of competence.

Closing activities

30 minutes



Take back to school task

1. Invite other Grade R teachers at your school (or from another school) to join you in planning Term 4 Weeks 4–6 of the Maths Programme.
2. Implement these three weeks and use the reflection cycle (Figure 1) to review your experience. Write your reflections in a journal and bring it to the next workshop.

Evaluation

Complete the Evaluation Form.

Ishoni 4: Ukucwangcisa ukufundisa

1½ iiyure

Le shoni yendibano yocweyo ilungiselela abathathinxaxheba ukuba bayokuphumeza iKota 4 iiVeki 4–6 ize ibonelele ngethuba lokuba amaqela amancinci azilungiselele kwangexesha. Kubalulekile uku-:

- ♦ hlangabezana nokwahluka kwamazinga enkqubela yabafundi
- ♦ nika inkxaso kubafundi abadinga uncedo olongezelelweyo
- ♦ bonelela ngemisebenzi yokwandisa kwabo bafundi abatshatsheleyo.

Injongo kukuqinisekisa ukuba bonke abafundi banobuchule nolwazi lomxholo weMathematika yeBanga R kwaye balilungele iBanga 1.



Umsebenzi 3

1. Kwiqela lakho, yenzani iithempleyithi zeKota 4 iiVeki 4–6 (Isingeniso A).
2. Xoxa ngendlela ozakucwangcisa nozakujongana ngayo nabafundi abanamazinga ezakhono ezohlukeneyo.

Imisebenzi yokuqukumbela

30 imizuzu



Umsebenzi ekubuyelwa nawo esikolweni

1. Mema ootitshala beBanga R esikolweni sakho (okanye abakwesinye isikolo) bakujoyine ekwenzeni isicwangciso seKota 4 iiVeki 4–6 zeNkqubo yeMathematika.
2. Phumeza ezi veki zintathu uze usebenzise umjikelo wakho wokuzihlola (Umfanekiso 1) ukuhlaziya amava akho. Bhala ucamngco lwakho kwijenali kwaye uze nayo kwindibano yocweyo elandelayo.

Uhlolo

Gcwalisa iFomu yoHlolo.

APPENDIX A: TERM 4 WEEKLY PLANNING TEMPLATE

Term 4: Activity Plan: Week ____

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

ISINGENISO A: ITHEMPLEYITHI YESICWANGCISO SEVEKI NEVEKI YEKOTA 4

Ikota 4: Isicwangciso semiSebenzi: Ivekhi ____

INKALO YOMXHOLO:				
ISIHLOKO:				
YAZISA ULWAZI OLUTSHA:				
ZIQHELISE:				
Imisebenzi yeklasi yonke		Umsebenzi okhokelwa ngutitshala	Imisebenzi yesitishi sokusebenzela (imisebenzi ezimeleyo yamaqela amancinci)	
Usuku 1			Umsebenzi 1	
Usuku 2			Umsebenzi 2	
Usuku 3			Umsebenzi 3	
Usuku 4			Umsebenzi 4	
Usuku 5				

Term 4: Activity Plan: Week __

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

Ikota 4: Isicwangciso semiSebenzi: Iveki ____

INKALO YOMXHOLO:				
ISIHLOKO:				
YAZISA ULWAZI OLUTSHA:				
ZIQHELISE:				
Imisebenzi yeklasi yonke		Umsebenzi okhokelwa ngutitshala	Imisebenzi yesitishi sokusebenzela (imisebenzi ezimeleyo yamaqela amancinci)	
Usuku 1			Umsebenzi 1	
Usuku 2			Umsebenzi 2	
Usuku 3			Umsebenzi 3	
Usuku 4			Umsebenzi 4	
Usuku 5				

Term 4: Activity Plan: Week ____

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

Ikota 4: Isicwangciso semiSebenzi: Iveki ____

INKALO YOMXHOLO:				
ISIHLOKO:				
YAZISA ULWAZI OLUTSHA:				
ZIQHELISE:				
Imisebenzi yeklasi yonke		Umsebenzi okhokelwa ngutitshala	Imisebenzi yesitishi sokusebenzela (imisebenzi ezimeleyo yamaqela amancinci)	
Usuku 1			Umsebenzi 1	
Usuku 2			Umsebenzi 2	
Usuku 3			Umsebenzi 3	
Usuku 4			Umsebenzi 4	
Usuku 5				

Workshop 11 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?

IFomu yokuHlola yeNdibano yoCweyo 11

1. Ingaba indibano yocweyo ifikelele koko ubukulindele?

2. Ufunde ntoni kule ndibano yocweyo ekuncede kakhulu?

3. Ingaba ikhona into ongakhange uyithande okanye obenobunzima bokuyiqonda?

4. Uzakukusebenzisa njani oko ukufundileyo apha kwiklasi yakho yeBanga R?

5. Ingaba unazo iingcebiso zokuphucula nangakumbi iindibano zocweyo?
