

Luhlelo Lwekwenta Kancono Tibalo TeLibanga R Grade R Mathematics Improvement Programme



Umhlanganosikolo 11 • Workshop 11
Incwadzi Yekusebentela Yemhlanganyeli • 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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Overview

Purpose

This is the eleventh 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 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)

Sibutsetelo

Inhloso

Lona ngumhlanganosikolo welishumi nakunye walelishumi nakubili yeLuhlelo Lwekwenta Kancono Tibalo TeLibanga R (Luhlelo Lwetibalo), loyincenye yeLitiko Letemfundvo laseGauteng (Gauteng Department of Education (GDE) Umklamo Wetibalo TeLibanga R Nekwenta Kancono Lulwimi.

Inhloso yalomhlanganosikolo kuhlangukisa kuvisisa lokucuketfwe Tibalo nalokufundziswa kuLibanga R nekuchubeka nekusita bothishela kutsi bafezekise Luhlelo Lwetibalo emaklasini abo. Bahlanganyeli batawuba nelitfuba lekubuyeketa kubukisisa kwabo. Batawehlwaya kutsi imitsetfomgomo yekufundzisa lekhombindlela tibalo kuLibanga R ifanele kutsi ikwesekela kanjani kuhlela, kufundzisa kanye nekuhlola. Batawuphindze futsi bacabange ngenchubekembili yemfundzi, kanye nekutfufuka kwangamunye netidzingo tekufundza. Lomhlanganosikolo wehlwaya lokucuketfwe kweThemu 4 Emaviki 4–6 nekufezekiswa kwawo eklasini.

Emareferensi kuMikhakha Yalokucuketfwe Tibalo TeLibanga R atsetfwe ku*Sitatimende Senchubomgomo Yekharikhulamu Nekuhlola (i-CAPS): Tibalo TeLibanga R (Luhlaka Lwekugcina)*, 2011, Litiko Letemfundvo Lesisekelo, laseNingizimu Afrika.

Imiphumela yekufundza

- ◆ Kujulisa kuvisisa lokucuketfwe Tibalo teLibanga R
- ◆ Kubuyeketa kuphumelelisa Luhlelo Lwetibalo eklasini
- ◆ Kubona tinsayeya kanye nekutfofa tisombululo ekuphumeleliseni Luhlelo Lwetibalo
- ◆ Kubuyeketa tihlobo teluhlolo lolungakahleleki kuLibanga R
- ◆ Kuhlela lokucuketfwe Luhlelo Lwetibalo lokutawufundziswa kuThemu 4 Emaviki 4–6

Lokucuketfwe kwemhlanganosikolo

- ◆ Kuvula nekubuyeketa (1 li-awa)
- ◆ Iseshini 1: Lubuyeketo lweMikhakha Yalokucuketfwe Tibalo (1 li-awa)
- LITIYA
- ◆ Iseshini 2: Tetfulo teMikhakha Walokucuketfwe weTibalo (1 li-awa)
- ◆ Iseshini 3: Tetfulo teMikhakha Walokucuketfwe weTibalo (tiyachubeka) (1 li-awa)
- KUDLA KWASEMINI
- ◆ Iseshini 4: Kuhlelela kufundzisa (1½ ema-awa)
- ◆ Imisebenti yekuvala (30 emaminitisi)

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.

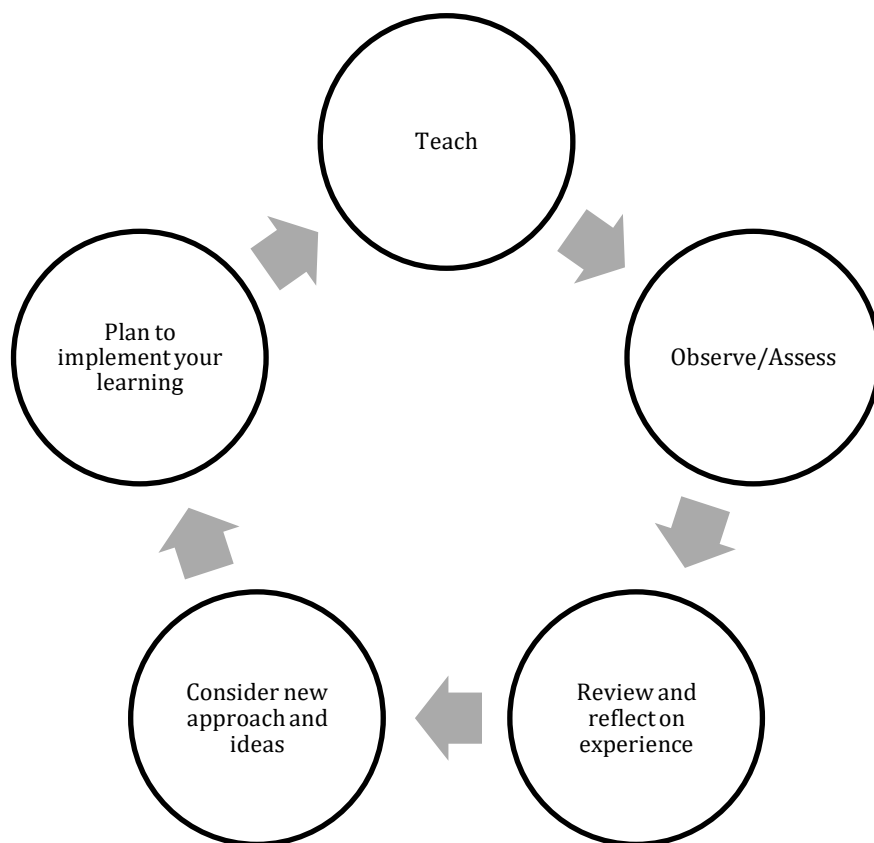


Figure 1: Stages of the reflection cycle

The process of self-reflection contains the following stages:

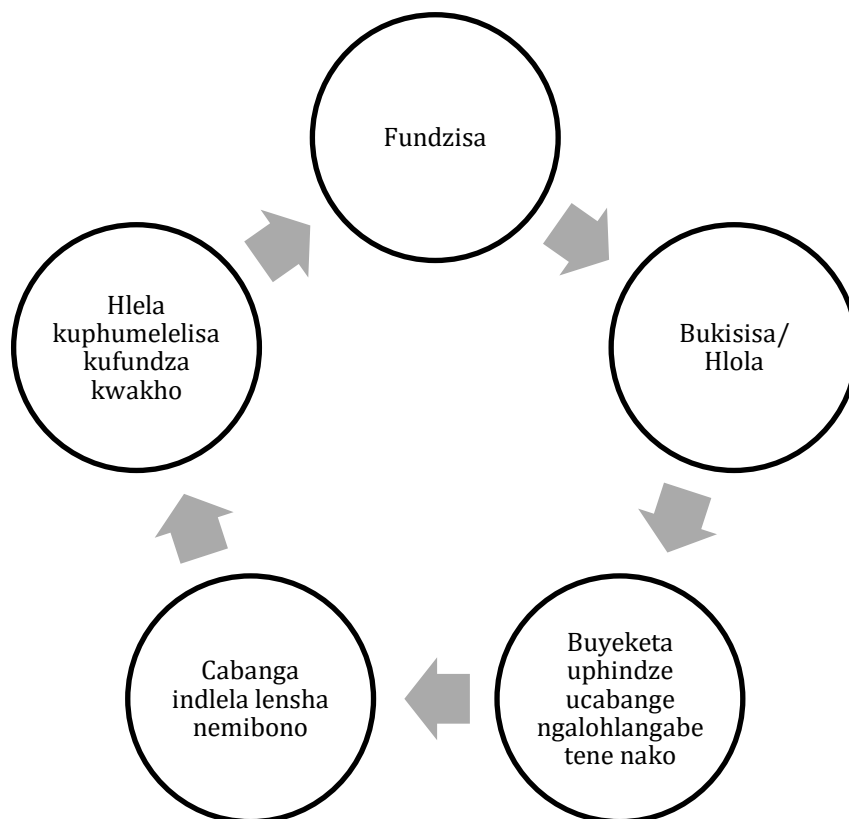
- ◆ Teach.
- ◆ Observe/assess.

Kuvula nekubuyeketa

1 li-awa

Uma sicabanga siphindze futsi sikhulumisane ngaloko lokusebentile kanye nekutsi sibukene njani netinsayeya letivele ngesikhatsi ufundzisa, kusenta kutsi sikhone kubona emandla kanye nebutsakatsaka betfu. Kubuyeketa kusebenta kwetfu njengabothishela kuisita kutsi sitfole lwati ngatsi kanye nekufundzisa kwetfu. Kusebenta lokubuyeketako kusenta sikwati kufundza kuloko lesihlangabetene nako kuphindze futsi kusikhutsate kutsi sisebente nebalingani betfu ngekwemsebenti kutsi sabelane imibono leyenta kufundzisa kwetfu kube ncono.

Inchubo yekutibuyeketa ingumjikeleto lodzinga kutsi siwuphindzaphindze.



Umdvwebo 1: Tigaba temjikeleto lobuyeketako

Inchubo yemjikelo lobuyeketako inaletigaba letilandzelako:

- ◆ Fundzisa.
- ◆ Bukisisa/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.

- ◆ Buyeketa uphindze futsi ucabange kufundzisa kwetfu kube yimphumelelo kangakanani, mhlawumbe sifundvo sihambe kahle, ngutiphi tinsayeya letibe khona nekutsi ingabe bafundzi bazuzile yini.
- ◆ Sebentisa lolwati lolungetulu ucabange ngetindlela letinsha tekufundzisa letingenta kancono lizinga lelihle lekufundzisa nekufundza.
- ◆ Hlela uphindze futsi uphumelelise imibono kanye/noma emasubuciko eklasini. Lomjikeleto wuphindze ngemuva kwekufundzisa ngakunye.

Kubuyeketa nekufezekisa

Umsebenti wekubuyisela emuva esikolweni weMhlanganosikolo 10, ukudzinge kutsi wente naku:

- ◆ Kuhlela nekufezekisa Ithemu 4 Emaviki 1–3 eLuhlelo Lwetibalo.
- ◆ Bhala kuphawula encwadzini lobhalela kuyo inchubekelembili yemfundzi ngamunye (incwadzi yekubukisisa bafundzi) Sebentisa luhlu lweku' **Hlola kutsi bafundzi bayakukhona ku'** ngesikhatsi semsebenti loholwa nguthishela ngamunye kukhombindlela kuphawula nekubukisisa kwakho.
- ◆ Bhala emanotsi ngaloko lokusebente kahle kakhulu nekutsi utisombulule kanjani tinsayeya takho ngesikhatsi sekufezekisa Ithemu 4 Emaviki 1–3.
- ◆ Wota kumhlanganosikolo lolandzelako nencwadzi yakho yekubukisisa nemanotsi lowentile ngesikhatsi ubuyeketa kufundzisa kwelilanga ngalinye kuMhlanganosikolo 11.



Umsebenti 1

1. Ecenjini lakho lelincane, cabanga ngasinye saletigaba kulomjikeleto wekubuyeketa bese nikhulumisana nge*Msebenti wekubuyisela emuva esikolweni* lokuMhlanganosikolo 10.
 - ◆ Kuhlela nekufundzisa kwakho kube yimphumelelo kangakanani kuThemu 4 Emaviki 1–3?
 - ◆ Tfola tinsayeya nemasubuciko lowasebentisile kutisombulula.

- ◆ 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.
-
-

- ◆ Ukhonile yini kubukisisa umfundzi ngamunye nekurekhoda inchubekelembili yakhe? Niketa tizatfu netibonelo tekwesekela imphendvulo yakho.
-
-

2. Cabanga ngekutsi ucelwe nguMphatsi weLitiko kutsi ukhulume nabothishela beLibanga R emhlanganweni weklasta.
 - ◆ Buka umjikeleto welubuyeketo kuMdvwebo 1.
 - ◆ Dvweba lomjikeleto ephepheni lefliphushadi bese ubhala emanotsi eceleni kwesigaba semjikeleto.
 - ◆ Licembu lakho litawetfula emaphuzu labalulekile engcogco yakho ecenjini lonkhe.



Ividiyo 1

Bukela levidiyo yelicembu labothishela babuyeketa kufundzisa kwabo uphindze futsi ulalele imibono yabo mayelana nekubuyeketa.

1. Uyavumelana yini nemibono yabo mayelana nekubuyeketa? Chaza imphendvulo yakho.
-
-

2. Ngabe kubuyeketa kuyakukhulisa yini kuvisisa kwakho kufundzisa kwakho? Chaza imphendvulo yakho.
-
-

3. Ngabe kubuyeketa kuyakukhulisa yini kuvisisa lokufundzisako eklasini lakho? Chaza imphendvulo yakho.
-
-

4. Kubuyeketa kuyakukhulisa yini kusebentisana nebalingani bakho ngekwemsebenti? Chaza imphendvulo yakho.
-
-

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.

Iseshini 2: Tetfulo teMkhakha Walokucuketfwe weTibalo

1 li-awa

Licembu ngalinye litawuba nemaminitisi la-15 kwetfula sihloko salo bese liphendvula imibuto yelicembu lonkhe.

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.

Iseshini 3: Tetfulo teMkhakha Walokucuketfwe weTibalo (tiyachubeka)

1 li-awa

Licembu ngalinye litawuba nemaminitisi la-15 kwetfula sihloko salo bese liphendvula imibuto yelicembu lonkhe.

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.

Iseshini 4: Kuhlelela kufundzisa

1½ ema-awa

Leseshini yalomhlanganosikolo ilungiselela bahlanganyeli kuFezekisa Ithemu 4 Emaviki 4–6 kantsi kuniketa litfuba kumacembu lamancane kutsi ahlelele phambili.

Kubalulekile:

- ♦ kulungisa kwehlukahlukana kumazinga enchubekembili yebafundzi
- ♦ kwesekela labo bafundzi labadzinga kwesekelwa lokwengetiwe
- ♦ kuniketa imisebenti yekutfufukisa yebafundzi labahamba embili.

Injongo lapha kucinisekisa kutsi bonkhe bafundzi banelikhono kulokucuketfwe Tibalo Telibanga 1.



Umsebenti 3

1. Ecenjini, cedzela ithemplethi yekuhlela yeThemu 4 Emaviki 4–6 (Sengeto A).
2. Khulumisanani ngekutsi utawuhlela kanjani uphindze futsi ubalawule kanjani bafundzi bakho labanemazinga emakhono lehlukene.

Imisebenti yekuvala

30 emaminitsi



Umsebenti wekubuyisela emuva esikolweni

1. Mema bothishela beLibanga R besikolo sakho (noma balesinye sikolo) kutsi bahlanganyele ekuhleleni Ithemu 4 Emaviki 4–6 eLuhlelo Lwetibalo.
2. Fezekisa lamaviki lamatsatfu uphindze futsi usebentise lomjikeleto wekubuyeketa (Umdvwebo 1) kute ubuyekete loko lohlangabetene nako. Bhala kubuyeketa kwakho kujenali bese uta nayo kumhlanganosikolo lolandzelako.

Kuhlolisisa

Gcwalisa leLiFomu Lekuhlolisisa.

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				

SENGETO A: ITHEMPLETHI YEKUHLELELA LIVIKI LETHEMU 4

Ithemu 4: Luhlelolisu Lwemsebenti: Liviki_____

UMKHAKHA WALOKUCUKETFWE:				
SIHLOKO:				
YETFULA LWATI LOLUSHA:				
TETAYETE:				
Imisebenti yeliklasi lonkhe		Umsebenti loholwa nguthishela	Imisebenti yenzawo yekusebentela (imisebenti letimele yemacembu lamancane)	
Lilanga 1			Umsebenti 1	
Lilanga 2			Umsebenti 2	
Lilanga 3			Umsebenti 3	
Lilanga 4			Umsebenti 4	
Lilanga 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				

Ithemu 4: Luhlelolisu Lwemsebenti: Liviki_____

UMKHAKHA WALOKUCUKETFWE:				
SIHLOKO:				
YETFULA LWATI LOLUSHA:				
TETAYETE:				
Imisebenti yeliklasi lonkhe		Umsebenti loholwa nguthishela	Imisebenti yenzawo yekusebentela (imisebenti letimele yemacembu lamancane)	
Lilanga 1			Umsebenti 1	
Lilanga 2			Umsebenti 2	
Lilanga 3			Umsebenti 3	
Lilanga 4			Umsebenti 4	
Lilanga 5				

Term 4: Activity Plan: Week ____

CONTENT AREA:				
SIHLOKO:				
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				

Ithemu 4: Luhlelolisu Lwemsebenti: Liviki_____

UMKHAKHA WALOKUCUKETFWE:				
SIHLOKO:				
YETFULA LWATI LOLUSHA:				
TETAYETE:				
Imisebenti yeliklasi lonkhe		Umsebenti loholwa nguthishela	Imisebenti yenzawo yekusebentela (imisebenti letimele yemacembu lamancane)	
Lilanga 1			Umsebenti 1	
Lilanga 2			Umsebenti 2	
Lilanga 3			Umsebenti 3	
Lilanga 4			Umsebenti 4	
Lilanga 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?

Lifomu Lekuhlolisisa Umhlanganosikolo 11

1. Lomhlanganosikolo ufinyelele yini ezingeni lebewulilindzele?

2. Yini lokufundzile kulomhlanganosikolo lokubalulekile lokukusite kakhulu?

3. Kukhona yini longakakutsandzi noma lokutfole kulukhuni?

4. Utakusebentisa kanjani eklasini leLibanga R loku lokufundzile?

5. Ikhona yini imibono lonayo yekwenta kancono imihlanganosikolo lechubekako?
