

# 2021 REVISED CURRICULUM AND ASSESSMENT PLANS

## MATHEMATICS GRADE 4 - 6

**Implementation: January 2021**



# Presentation Outline

1. Background
2. Principles
3. Underpinning Assumptions
4. Purpose
5. Amendments to the Content Overview for the Phase;
6. Amendments to the Annual Teaching Plan;
7. Amendments School Based Assessment (SBA)
8. Conclusion

# 1. Background

- **COVID 19 led to losses in teaching and learning time due to:**
  - the lockdown period and **phased reopening** of schools,
  - alternating time tabling models and
  - the related health and safety **protocols.**
- Furthermore, the revision of the school calendar **and** intermittent closure of many schools negatively **impacted on the implementation of the revised 2020 ATPs** as envisioned.

# 1. Background cont.

- To mediate the impact and support teachers in managing teaching, assessment and learning within the reduced **time**, the DBE in 2020 issued :
  - Circular S2 of 2020 which released the revised and trimmed ATPs for implementation in 2020
  - **Circular S3 that outlined** the minimum concepts, content and skills that are core per grade and per subject
  - NA Circular 02, 03 and 07 of 2020 that talk to assessment.

## 2. Principles

- Manage the learning losses and the possible loss of teaching time;
- Learning losses defined as those Learning Outcomes **(content, skills & competencies, values & attitudes)** as stated in the Revised ATPs not achieved during the 2020 school year.
- The 2021 ATPs will be based on the revised ATPs developed in 2020
- **Fundamental and core topics are retained in the Recovery ATPs**

## 2. Principles, cont.

- Create opportunities through adjusted ATPs to strengthen **pre-knowledge, consolidation, revision, and deeper learning.**
- Entrench assessment for learning as a **Pedagogical Approach** to address the learning losses
- **The 2021 Recovery ATPs maintains the use of current LTSM and resources already available in the system.**
- **The Recovery ATPs are aligned to the:**
  - 2021 School calendar
  - Abridged Section 4 of CAPS with some alterations
  - Curriculum and assessment principles as prescribed in the CAPS policy for **Mathematics**

# 3. Assumptions

## Assumption 1

All learners will return to school from day 1 of the 2021 academic year and norm-times as stipulated in the CAPS will be adhered to for the entire school year;

## Assumption 2

Learning losses due to COVID-19 across grades and subjects will vary from school to school, class to class and even within classes.

# 3. Assumptions, cont.

## Assumption 3

Each Teacher will have a record of learning losses and Departmental Heads and Subject Advisors will monitor progress in learning loss recovery;

## Assumption 4

All schools will develop & implement school-based support programmes for all grades/years with particular **focus on all the exit grades/years (3, 6, 9 and 12) throughout the three-year period.**



# 3. Assumptions, cont.

## Assumption 5

All Circulars related to the 2020 ATPs including SBA to be withdrawn and revised to align to the 2021 ATPs.

## Assumption 6

Schools have systems in place to manage the possibility of a second wave of the pandemic in 2021

# 4. Purpose

- To mediate the amendments of the trimmed and re-organised 2021 Annual Teaching Plans (ATP) including School Based Assessment for **Mathematics, Grade 4-6** for implementation in January 2021 **as stipulated in Circular S11 of 2020.**
- To ensure that **meaningful teaching proceeds** during 2021 school year according to the school calendar.
- To assist teachers with **guided pacing and sequencing** of curriculum content and assessment.

# 4. Purpose

- To enable teachers to **cover the essential core content /skills including the fundamentals** within the available, **amended** time.
- To assist teachers with **planning** for the different forms of **assessment**.
- To ensure learners are **adequately prepared** for the **subsequent year/s** in terms of content, skills, knowledge, attitudes and values

# **5. Amendments to the Content Overview for the Phase**

# Summary: Amendments to the Content Overview for the Phase

Removed	As in CAPS	Modified

Grade 4	Grade 5		Grade 6
<b>WHOLE NUMBERS</b>			
<b>Contextual Problems to be done AGAIN in Term 4</b>			
<b>DECIMAL FRACTIONS</b>			
		<b>Modified in terms of time</b>	

# Summary: Amendments to the Content Overview for the Phase

Grade 4	Grade 5	Grade 6
<b>VIEWING OBJECTS</b>		
<b>Removed</b>	As in CAPS	<b>Removed</b>
<b>POSITION AND MOVEMENT</b>		
<b>Removed</b>	<b>Removed</b>	<b>Removed</b>
<b>SYMMETRY</b>		
<b>Modified in terms of time</b>	<b>Modified in terms of time</b>	<b>Removed</b>
<b>MASS</b>		
<b>Removed</b>	<b>Modified in terms of time</b>	<b>Modified in terms of time</b>

# Summary: Amendments to the Content Overview for the Phase

Grade 4	Grade 5	Grade 6
<b>TEMPERATURE</b>		
	<b>Removed</b>	<b>Removed</b>
<b>COLLECT, ORGANISE, REPRESENT, SUMMARISE AND INTERPRET DATA</b>		
<b>Removed</b>	<b>Removed</b>	<ul style="list-style-type: none"> <li>As in CAPS, however <b>PROVIDE LEARNERS WITH DATA TO SAVE TIME, i.e. learners must NOT collect data</b></li> </ul>
<b>PROBABILITY</b>		
<b>Removed</b>	<b>Removed</b>	<b>Removed</b>

# **6. Amendments to the Annual Teaching Plan**



# Summary: Reorganisation of content topics

- Topics that are repetitive have been merged and dealt with once, but in depth
- Some topics that will be dealt with in the next grade with little or no progression have been left out
- Some topics have been moved from one term to the next due to the following reasons:
  - Lack of time in the term
  - To incorporate other topics dealt with

# Summary: Reorganisation of content topics

- Topics that link with each other have been dealt with, one after the other
- Hours in some topics have been increased to allow the topic to be taught in depth
- Numbers, Operations and Relationships to be dealt with before all other topics since they form part of almost every topic
- Solving problems in context to be done AGAIN in Term 4 using ALL operations with Whole numbers, common fractions and decimal fractions where applicable.

# Grade 4

# **Numbers, Operations and Relationships**

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.1 Whole numbers: counting, ordering, comparing, representing and place value	2	Merged and done once in Term 2	1	Merged and will be done once Increased from 5 hrs. to 12 hrs.
1.1 Whole numbers: Addition and subtraction	3	Merged and done once	1	Merged and will be done once Reduced from 27 hrs. to 18 hrs since contextual problems will be done again in Term 4



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.1 Whole numbers: Multiplication	3	Merged and done once, in depth	1	Merged and will be done once in Term 2. Increased from 15 hrs. to 21 hrs. N.B. Contextual problems will be done again in Term 4
1.1 Whole numbers: Division	3	Merged and done once, in depth	2	Merged and will be done once in Term 2. Increased from 9 hrs. to 12 hrs. N.B. Contextual problems will be done again in Term 4



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.2 Common Fractions	3	Merged, reduced from 16 hours to 10 hours and moved to term 3	3	Merged, increased from 15 hrs. to 17 hrs. and done in Term 3.



# **Patterns Functions and Algebra**



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
2.1 Numeric Patterns	1	Taught in Term 1	2	Merged, increased from 8 hrs to 9 hrs and moved to Term 2
2.2 Geometric patterns		Removed	2	Merged
2.3 Number sentences	1	Taught in Term 1	1	Merged and increased from 6 hrs. to 9 hrs.

# Space and Shape

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.1 Properties of 2 D shapes	1	Taught in Term 1	3	Merged, increased from 9 hrs. to 12 hrs. and moved from Term 1 to Term 3
3.2 Properties of 3 D objects	4	Merged, reduced from 11hours to 5 hours and moved from Term 2 to Term 4		Removed
3.3 Symmetry		Removed	3	Increased from 2 hrs. to 3 hrs and moved from Term 2 to Term 3 to link with 2D shapes



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.4 Transformations		Removed	3	Reduced from 6 hrs. to 3 hrs. and moved from Term 2 to Term 3 to link with symmetry
3.5 Viewing of objects		Removed		Removed
3.6 Position and movements		Removed		Removed

# Measurement

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.1 Length	4	Moved from Term 2 to Term 4	3	Reduced from 7 hrs. to 6 hrs. and moved from Term 2 to Term 3
4.2 Mass	4	Taught in Term 1		Removed
4.3 Capacity/Volume	4	Moved from Term 3 to Term 4	4	Moved from Term 2 to Term 4

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.4 Time	1	Taught in Term 1	3	Moved from Term 1 to Term 3
4.2 Perimeter, and Area	4	Reduced from 7 hrs. to 6 hrs.	4	Increased from 7 hrs. to 9 hrs.

# Data handling



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
5.1 and 5.2 Collect, organise represent and summarise data	1	Taught in Term 1		Removed
5.3 Interpret, Analyse and report data	1	Taught in Term 1		Removed
5.4 Probability		Removed		Removed

# Grade 5

# **Numbers, Operations and Relationships**

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.1 Whole numbers: counting, ordering, comparing, representing and place value	2	Merged and done once	1	Merged and will be done once Increased from 5 hrs. to 12 hrs.
1.1 Whole numbers: Addition and subtraction	2	Merged and done once	1	Merged and will be done once Reduced from 20 hrs. to 15 hrs since contextual problems will be done again in Term 4



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.1 Whole numbers: Multiplication	2	Merged and done once, in depth	1	Merged and will be done once in Term 2. Reduced from 17 hrs. to 15 hrs since contextual problems will be done again in Term 4
1.1 Whole numbers: Division	3	Merged and done once, in depth	1	Merged and will be done once in Term 2. Reduced from 18 hrs. to 15 hrs since contextual problems will be done again in Term 4



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.2 Common Fractions	3	Moved from Term 2 to Term 3 due to lack of time in Term 2	3	Merged, increased from 15 hrs. to 18 hrs. and done in Term 3.

# **Patterns Functions and Algebra**

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
2.1 Numeric Patterns	3	Merged , reduced from 11 hours to 6 hours and moved to Term 3	2	Merged and moved to Term 2
2.2 Geometric patterns	3	Merged , reduced from 11 hours to 6 hours and moved to Term 3	2	Merged and done in Term 2
2.3 Number sentences	1	Taught in Term 1	2	Merged, increased from 6 hrs. to 9 hrs. and done in Term 1



# Space and Shape

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.1 Properties of 2 D shapes	1	Taught in Term 1	3	Merged, reduced from 11 hrs. to 9 hrs. and moved from Term 1 to Term 3
3.2 Properties of 3 D objects	4	Merged, reduced from 11 hrs. to 6 hrs. and moved from Term 2 to 4	3	Merged, reduced from 11 hrs. to 9 hrs. and moved from Term 1 to Term 3
3.3 Symmetry		Removed	3	Increased from 2 hrs. to 3 hrs and moved from Term 2 to Term 3 to link with 2D shapes

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.4 Transformations	4	Merged and moved to Term 4	3	Reduced from 4 hrs. to 3 hrs. and moved from Term 4 to Term 3 to link with symmetry
3.5 Viewing of objects	4	Moved from Term 3 to Term 4		Removed
3.6 Position and movements		Removed		Removed

# Measurement

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.1 Length	3	Reduced from 6 hrs. to 5 hrs. and moved from Term 2 to Term 3	3	Moved from Term 2 to Term 3
4.2 Mass	3	Taught in Term 1	4	Removed
4.3 Capacity/Volume	3	Taught in Term 1	4	Moved from Term 1 to Term 4

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.4 Time	1	Taught in Term 1	4	Moved from Term 1 to Term 4
4.5 Temperature	1	Taught in Term 1	4	Removed
4.2 Perimeter, Area and Volume	4	Taught as in CAPS		Increased from 7 hrs. to 12 hrs.

# Data Handling

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
5.1 and 5.2 Collect, organise represent and summarise data	4	Reduced from 9 hrs. to 6 hrs., moved from Term 1 to Term 4 and merged with 5.3	4	Removed
5.3 Interpret, Analyse and report data	4	Reduced from 9 hrs. to 6 hrs., moved from Term 1 to Term 4 and merged with 5.1 and 5.2	4	Removed
5.4 Probability		Removed		Removed





# Grade 6

# **Numbers, Operations and Relationships**

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.1 Whole numbers: counting, ordering, comparing, representing and place value	2	Merged and done once	1	Merged and will be done once Increased from 5 hrs. to 6 hrs.
1.1 Whole numbers: Addition and subtraction	2	Merged and done once	1	Merged and will be done once Reduced from 15 hrs. to 12 hrs since contextual problems will be done again in Term 4



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.1 Whole numbers: Multiplication	2	Merged and done once, in depth	1	Merged and will be done once Increased from 10 hrs. to 12 hrs.
1.1 Whole numbers: Division	2	Merged and done once, in depth	1	Merged and will be done once



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.2 Common Fractions	1	Taught in Term 1	2	Moved from Term 1 to Term 2
1.3 Decimal fractions	3	Moved from Term 2 to Term 3 due to lack of time in Term 2	2	Increased from 10 hrs. to 12 hrs.



# **Patterns Functions and Algebra**

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
2.1 Numeric Patterns	4	Merged with 2.2 , reduced from 11 hours to 9 hrs. and moved to Term 4	2	Merged and moved to Term 2
2.2 Geometric patterns	4	Merged with 2.1 , reduced from 11 hrs. to 9 hrs. and moved to Term 4	2	As in CAPS
2.3 Number sentences	1	Taught in Term 1	2	Merged and moved to Term 2

# Space and Shape



# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.1 Properties of 2 D shapes	3	Moved from Term 2 to Term 4	3	Merged and moved from Term 1 to Term 3
3.2 Properties of 3 D objects	4	Merged, reduced from 10hrs. to 5 hrs. and moved from Term 2 to Term 4	3	Merged, reduced from 10 hrs. to 5 hrs. and moved from Term 2 to 3
3.3 Symmetry		Removed		Removed

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.4 Transformations	4	Merged and moved to Term 4	3	Merged and moved to Term 3
3.5 Viewing of objects		Removed		Removed
3.6 Position and movements		Removed		Removed

# Measurement

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.1 Length	3	Taught in Term 1	3	Increased from 5 hrs. to 6 hrs.
4.2 Mass	4	Taught in Term 1	4	Increased from 5 hrs. to 6 hrs. and moved from Term 3 to Term 4
4.3 Capacity/Volume	3	Moved from Term 2 to 3 to incorporate decimals	3	Increased from 5 hrs. to 6 hrs.

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.4 Time	1	Taught in Term 1	4	Increased from 4 hrs. to 6 hrs and moved from Term 1 to Term 4
4.5 Temperature		Removed	4	Removed
4.2 Perimeter, Area and Volume	4	Taught as in CAPS		Increased from 7 hrs. to 9 hrs. and moved from Term 4 to Term 3



# Data Handling

# Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
5.1 and 5.2 Collect, organise represent and summarise data	1	Taught in Term 1	4	Moved from Term 1 to Term 4 . Increased from 10 hrs. to 12 hrs. and merged with 5.3.
5.3 Interpret, Analyse and report data	1	Taught in Term 1	4	Moved from Term 1 to Term 4 . Increased from 10 hrs. to 12 hrs. and merged with 5.1 and 5.2.
5.4 Probability		Removed		Removed



# **7. Amendments School Based Assessment (SBA)**



# Informal Assessments

- To be incorporated into every lesson
- May also be written after a completion of all concepts and skills of a topic
- Guidance on how to manage these tasks should be provided

# Summary: Revised Programme of Assessment

Term	2020	2021
Term 1	Assignment Test	Assignment Test
Term 2	N/A	Investigation Test
Term 3	Assignment	Project Test
Term 4	Test	Test



# Summary: Revised Programme of Assessment

- As in Abridged CAPS Section 4, **however**, Examinations are replaced by Tests
- Term 2 Test which replaces June Examinations will cover Term 1 and Term 2 work.
- Term 4 Test which replaces End of the Year Examinations will cover Term 4 and Fundamentals from Term 1 to 3
- **N.B.** More weighting has to be given to Term 2 and Term 4 work in Term 2 and Term 4 tests, respectively.
- SBA weighs 80% and Term 4 Test weighs 20%



# 8. Conclusion

# Conclusion

- The revised CAPS must be used in conjunction with clarification notes in CAPS.
- For Term 1 and Term 3 tests, mark allocation per topic will depend on the time allocation per topic in the 'Revised' ATPs.
- For tests that replace examinations, more weighting has to be given to Term 2 and Term 4 work .
- Cognitive levels will apply according to Abridged Section 4 of CAPS

**N.B. 'Trimmed ATPs' document is an interim arrangement due to COVID 19**

# Contact Details

Province	Subject Planners	Email Address
EC	Mr M Zweni	<a href="mailto:mzweni18@gmail.com">mzweni18@gmail.com</a>
EC	Ms NS Msindo-Ntshela	<a href="mailto:nodumomsindo@gmail.com">nodumomsindo@gmail.com</a>
FS	Ms N Msomi	<a href="mailto:n.msomi@fseducation.gov.za">n.msomi@fseducation.gov.za</a> <a href="mailto:naledimsomi@gmail.com">naledimsomi@gmail.com</a>
FS	Mr F Rantene	<a href="mailto:rantesf@gmail.com">rantesf@gmail.com</a>
GP	Mr D Maphanga	<a href="mailto:Dumisani.Maphanga@gauteng.gov.za">Dumisani.Maphanga@gauteng.gov.za</a>
KZN	Mr L Mtnwa	<a href="mailto:Lazi.mtnwa@outlook.com">Lazi.mtnwa@outlook.com</a>
LP	Mr RS Rambau	<a href="mailto:rmbaurs@gmail.com">rmbaurs@gmail.com</a> <a href="mailto:RambauRS@edu.limpopo.gov.za">RambauRS@edu.limpopo.gov.za</a>

# Contact Details, cont...

Province	Subject Planners	Email Address
MP	Ms H Mashile	<a href="mailto:tozimash@gmail.com">tozimash@gmail.com</a> <a href="mailto:tomashile@mpuedu.gov.za">tomashile@mpuedu.gov.za</a>
NC	Ms P Whitten	<a href="mailto:piwhitten.whitten@gmail.com">piwhitten.whitten@gmail.com</a>
NC	Ms E Masdoll	<a href="mailto:emasdoll@gmail.com">emasdoll@gmail.com</a>
NW	Dr H Baughan	<a href="mailto:hbaughan@nwpg.gov.za">hbaughan@nwpg.gov.za</a> <a href="mailto:hughbaughan@gmail.com">hughbaughan@gmail.com</a>
WC	Mr A Lamprecht	<a href="mailto:Andre.lamprecht@westerncape.gov.za">Andre.lamprecht@westerncape.gov.za</a>
DBE	Ms CF Mtumtum	<a href="mailto:Mtumtum.C@dbe.gov.za">Mtumtum.C@dbe.gov.za</a>



THANK  
YOU

