

2021 REVISED CURRICULUM AND ASSESSMENT PLANS

MATHEMATICS GRADE 9

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 9** 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

Overview for the Phase

Removed	Nothing done	Modified

Grade 7	Grade 8	Grade 9
WHOLE NUMBERS		
<p>Modified by removing Financial Mathematics. Concept of LCM and HCF has been modified</p>	<p>Modified by removing Financial Mathematics</p>	<p>Modified by removing Financial Mathematics</p>

Summary: Amendments to the Content Overview for the Phase

Grade 7	Grade 8	Grade 9
COMMON FRACTIONS AND DECIMAL FRACTIONS		
As in CAPS	As in CAPS	Removed as stand alone topics but to be incorporated into Expressions (Page 122 & 123 of CAPS)
GRAPHS		
Removed	As in CAPS	Modified to focus on straight line graphs only

Overview for the Phase

Grade 7	Grade 8	Grade 9
CONSTRUCTION OF GEOMETRIC FIGURES		
Modified N.B. Provide learners with accurately constructed figures	Removed as a stand alone topic, however, part of Construction has been modified and incorporated into Geometry of 2D shapes	Removed as a stand alone topic, however, part of Construction has been modified and incorporated into Geometry of 2D shapes

Summary: Amendments to the Content Overview for the Phase

Grade 7

Grade 8

Grade 9

GEOMETRY OF 2D SHAPES

As in CAPS

Investigating properties of geometric figures

Merged with Modified Construction of Geometric Figures
N.B. Provide learners with accurately constructed figures to investigate the properties

Investigating properties of geometric figures

Merged with Modified Construction of Geometric Figures
N.B. Provide learners with accurately constructed figures to investigate the properties

Overview for the Phase

Grade 7	Grade 8	Grade 9
GEOMETRY OF 3D OBJECTS		
Removed	Removed	Removed
TRANSFORMATION GEOMETRY		
As in CAPS	Modified: Enlargements and reductions, and rotating a triangle around the origin that have been removed.	Modified: Enlargements and reductions, rotation around a point and reflection in the line $y = x$ that have been removed.
SURFACE AREA AND VOLUME OF 3dD OBJECTS		
As in CAPS	Removed	Removed

Summary: Amendments to the Content Overview for the Phase

Grade 7	Grade 8	Grade 9
COLLECT, ORGANISE, REPRESENT, SUMMARISE AND INTERPRET DATA		
<ul style="list-style-type: none"> As in CAPS, however PROVIDE LEARNERS WITH DATA TO SAVE TIME, i.e. learners must NOT collect data 	Removed	Removed
PROBABILITY		
Removed	Removed	Removed

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

Grade 9

Numbers, Operations and Relationships

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.1 Whole Numbers	1	Taught in Term 1	1	Increased from 4.5 hrs to 6 hrs Financial Maths removed
1.2 Exponents	1	Taught in Term 1	1	Nothing done
1.3 Integers	2	Moved from Term 4 to Term 2	1	Nothing done



Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
1.4 Common Fractions	2	As in CAPS	2	To be incorporated into Algebraic Expressions
1.5 Decimal Fractions	2	As in CAPS	2	To be incorporated into Algebraic Expressions

Patterns Functions and Algebra

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
2.1 Patterns	1	Taught in Term 1	2	Moved from Term 1 To Term 2 and increased from 4.5 hrs. to 6 hrs.
2.2 Functions and Relationships	2	Reduced from 5 hours to 3 hours and moved from Term 2 to Term 3	3	Increased from 5 hrs. to 6.5 hrs.

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
2.3 Algebraic Expressions	3	Moved from Term 2 to Term 3	2 and 3	Merged , increased from 13.5 hrs. to 16 hrs. and moved from Term 1 to Term 2.
2.4 Algebraic Equations	3	Reduced from 9 hours to 4.5 hours and moved to Term 3. The focus was on factorisation	2 and 3	Merged , increased from 13 hrs. to 13.5 hrs. and moved from Term 1 to Term 2.
2.5 Graphs	3	Reduced from 12 hours to 6 hours. Focus on straight line graphs	4	Reduced from 12 hrs. to 9 hrs. due to Global graphs that have been removed. Line graphs are restricted to $y/x = \pm a$



Space and Shape

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.1 Geometry of 2 D shapes	3	Moved from Term 2 to Term 3	3	Increased from 9 hrs. to 15 hrs. and moved from Term 2 to Term 3 and overlapped to Term 4 due to time.
3.2 Geometry of 3 D objects		Removed		Removed



Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.3 Geometry of straight lines	3	Reduced from 9 hours to 4.5 hours and moved from Term 2 to Term 3	3	Moved from Term 2 to Term 3.
3.4 Transformation Geometry	4	Reduced from 9 hours to 7 hours. Exclude rotations	4	Moved from Term 4 to Term 3 and reduced from 9 hrs. to 5 hrs. due to enlargements and reductions, rotation around a point and reflection in the line $y = x$ that have been removed.

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.5 Construction of Geometric figures		Removed	3	Removed as a topic and part of modified Construction of Geometric figures has been incorporated into Geometry of 2D shapes, then moved from Term 2 to Term 3.

Measurement

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.1 Area and Perimeter of 2D shapes	4	Moved from Term 2 to Term 4 to be done with Theorem of Pythagoras for 6 hours (see 4.3)	4	Moved from Term 3 to Term 4 and increased from 5 hrs to 9 hrs.
4.2 Surface Area and Volume of 3 D objects	4	Moved from Term 3 to Term 4		Removed



Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
4.3 Theorem of Pythagoras	4	Moved from Term 3 to Term 4. To be done with Area and Perimeter of 2 D shapes for 6 hours (see 4.1)	4	Moved from Term 2 to Term 4. and reduced from 5 hrs. to 4.5 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 10.5 hours to 7 hours and merged with 5.3	4	Removed
5.3 Interpret, Analyse and report data	4	Reduced from 10.5 hours to 4,5 hours, merged with 5.1 and 5.2	4	Removed
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.
- The weighting for SBA and Term 4 Test will be 80% and 20%, respectively.



8. Conclusion

Conclusion

- The revised ATPs 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

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THANK
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