Every child is a National Asset

2021 REVISED CURRICULUM AND ASSESSMENT PLANS

MATHEMATICS GRADE 8

Implementation: January 2021

basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Read to Lead

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 8 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	Nothing done	Modified

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

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

Summary: Amendments to the Content 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**

Summary: Amendments to the Content 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		
. 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 8

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 6 hrs to 9 hrs Financial Maths removed Concept of LCM and HCF has been modified
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	1	Moved from Term 2 to Term 1
1.5 Decimal Fractions	2	As in CAPS	1 and 2	Moved part of decimal fractions from Term 2 to Term 1 due to time..

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 9 hrs.
2.2 Functions and Relationships		To be incorporated into other topics	3	Merged , Reduced from 9 hrs. to 7 hrs. and Moved to Term 2

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 , however part of the expressions have been moved to Term 3 due to time.
2.4 Algebraic Equations	3	Merged, reduced from 6 hours to 3 hours and moved to Term 3.	2 and 3	Merged , and moved to Term 3.
2.5 Graphs	4	Reduced from 9 hrs. to 4.5 hrs.	4	Reduced from 9 hrs. to 8 hrs.

Space and Shape

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.1 Geometry of 2 D shapes	4	Moved from Term 2 to Term 4	3	Moved from Term 2 to Term 3. Increased from 8 hrs. to 12.5 hrs. since it incorporates part of constructions with modification.
3.2 Geometry of 3 D objects		Removed		Removed
3.3 Geometry of straight lines	3	Moved from Term 2 to Term 3	3	Moved from Term 2 to Term 3.

Summary: Content/Topics Amended

Content/Topics	2020		2021	
	Term	Amendment	Term	Amendment
3.4 Transformation Geometry		Removed	4	Reduced from 6 hrs. to 4.5 hrs. due to enlargements and reductions, and rotating a triangle around the origin that have been removed.
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

Measurement

Summary: Content/Topics Amended

	2020		2021	
Content/Topics	Term	Amendment	Term	Amendment
4.1 Area and Perimeter of 2D shapes	4	Moved from Term 3 to Term 4	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
4.3 Theorem of Pythagoras	3	As in CAPS	4	Reduced from 5 hrs to 4.5 hrs and moved from Term 3 to Term 4

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 4,5 hours, merged with 5.3 and moved from Term 3 to term 4	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 and moved from Term 3 to term 4	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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