

2021 RECOVERY ANNUAL TEACHING PLANS

NATURAL SCIENCES

GRADE 9

Implementation: January 2021



Presentation Outline

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Introduction

Introduction



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** the **ability of teachers to implement the revised 2020 ATPs** as envisioned.

To mediate the impact and support teachers in managing teaching, assessment and learning within the reduced **time**, the DBE in 2020 implemented:

- **Circular S3** that outlined and guided teachers to conduct **context specific subject trimming**, in consultation with subject advisors.
- **National Assessment Circular 02** and **Circular E 11** to guide school-based assessment in phases and subjects

Principles

Principles

1

Use of the **2020 Curriculum Recovery Framework** as the base document

2

Learning losses inform the **Three Year Recovery Plans for School –based Assessment**

3

Management of the learning losses and the **School Based Recovery Plans**

4

Create opportunities through adjusted ATPs to strengthen **pre-knowledge, consolidation, revision, and deeper learning**

5

Entrench **Assessment for Learning** as a **Pedagogical Approach** to address the learning losses



Principles

6

The 2021 Recovery ATPs maintains the use of current LTSM and resources already available in the system.

7

Content topics removed in 2020 were not automatically returned in the 2021 Recovery ATPs.

8

Fundamental and core topics were retained in the Recovery ATPs

9

To guide and support effective teaching and learning



Underpinning Assumptions

Underpinning Assumptions



1

1

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;

2

2

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

3

ASSUMPTION 3

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



Underpinning Assumptions



4

4

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.**

5

5

ASSUMPTION 5

All Circulars related to the 2020 ATPs including SBA to be withdrawn and revised to align to the 2021 ATPs.

6

6

ASSUMPTION 6

Schools have systems in place to manage the possibility of a second wave of the pandemic in Q1 and Q3 of the 2021



The Development of the 2021 Recovery ATPs

The Development of the 2021 Recovery ATPs

The Recovery ATPs are aligned to the:

- 2021 School calendar
- Abridged Section 4 of CAPS
- Curriculum and assessment principles as prescribed in the CAPS policy for **Natural Sciences**

Purpose

Purpose

- To show the **outline of the content** for this grade for 2021;
- To mediate the Recovery Annual Teaching Plan (ATP) and the School Based Assessment for Natural Sciences, **Grade 9 for implementation in January 2021 as stipulated in Circular S11 of 2020.**
- To ensure **meaningful teaching and learning for 2021** against the backdrop of the 2020 circumstances occasioned by the Coronavirus;
- To enable teachers to **bridge missed** content - skills, knowledge, values, and attitudes - from previous grades and covering content for the current grade;

Content Overview for the Phase

Content Overview for the Phase

Natural Sciences

Term	Grade 7	Grade 8	Grade 9
1	<ul style="list-style-type: none"> • The biosphere • Biodiversity • Sexual Reproduction • Variation 	<ul style="list-style-type: none"> • Photosynthesis and respiration • Interactions and interdependence within the environment • Micro-organisms 	<ul style="list-style-type: none"> • Cells as the basic units of life • Systems of the human body integrated with the Human reproduction system • Systems of the human body integrated with the Circulatory and Respiratory systems • Systems of the human body integrated with Digestive system
2	<ul style="list-style-type: none"> • Solids, liquids and gases (grade 6) • Properties of materials • Solution as a special mixture (grade 6) • Dissolving (grade 6) • Separating mixtures • Acids, bases and neutrals 	<ul style="list-style-type: none"> • Introduction to the periodic table of elements (Grade 7) • Atoms • Particle model of matter 	<ul style="list-style-type: none"> • Compounds • Chemical reactions (Grade 8) • Chemical reactions • Reactions of metals with oxygen • Reactions of non-metals with oxygen • Acids & bases, and pH value • Reactions of acids with bases: Parts I • Reactions of acids with bases: Parts II

Content Overview for the Phase

Natural Sciences

Term	Grade 7	Grade 8	Grade 9
3	<ul style="list-style-type: none"> Sources of Energy Potential & Kinetic energy Heat Transfer Electric circuits (Grade 6) Electrical conductors and insulators (Grade 6) Insulation & energy saving Energy transfer to surroundings 	<ul style="list-style-type: none"> Potential and kinetic energy (Grade 7) Static electricity Energy transfer in electrical systems Series and parallel circuits Visible light 	<ul style="list-style-type: none"> Forces Electric cells as energy systems Resistance Series and parallel circuits Safety with electricity Energy and the national electricity grid Cost of electrical power
4	<ul style="list-style-type: none"> The Solar System (Grade 6) Movements of the Earth and planets (Grade 6) Relationship of the sun to the earth The movement of the Moon (Grade 6) Relationship of the moon to the earth 	<ul style="list-style-type: none"> The Solar System Beyond the Solar System Looking into space 	<ul style="list-style-type: none"> The Earth as a system Lithosphere Atmosphere Mining of mineral resources Birth; life and death of star

Summary: Content/Topics Amended

Summary: Content/Topics Amended

Content/Topics	Term	Amendment
Cells as basic units of life	1	Retained
Systems of the human body integrated with the Human reproduction system	1	Reduced time only
Systems of the human body integrated with the Circulatory and Respiratory systems	1	Retained
Systems of the human body intergrated with the Digestive system	1	Retained
Compounds	2	Retained
Chemical reactions	2	Recovered from Grade 8
Chemical reactions	2	Retained
Reactions of metals with oxygen	2	Retained
Reactions of non-metals with oxygen	2	Retained



Summary: Content/Topics Amended

Content/Topics	Term	Amendment
Acids, bases and pH-values	2	Retained
Reactions of acids with bases: Part I	2	Retained
Reactions of acids with bases: Part II	2	Retained
Reactions of acids with bases: Part III	2	Removed
Reactions of acids with metals	2	Removed

Summary: Content/Topics Amended

Content/Topics	Term	Amendment
Forces	3	Increased time
Electric cells as energy systems	3	Retained
Resistance	3	Retained
Series and parallel circuits	3	Retained
Safety with energy	3	Retained
Energy and the national energy grid	3	Retained
Cost of electrical power	3	Reduced
The Earth as a system	4	Retained
Lithosphere	4	Retained
Atmosphere	4	Retained
Mining of mineral resources	4	Retained
Birth, life and death of stars	4	Retained



Amendments to the Annual Teaching Plan

Amendments to the Annual Teaching Plan

- The Recovery ATP for Natural Sciences has the **same content as in CAPS**, however, this content has been arranged as follows:
 - Some topics have been **cut out completely**;
 - Content in some topics has been **reduced**;
 - Some topics have been **brought back**;
 - Some **topics from Grade 8** have been included with **reduced time**;
- *Planet Earth and Beyond* content has been **brought back**;
- **Textbooks** can be used as they are, but noting the omitted content in the Recovery ATP for Natural Sciences;
- Each grade has to have **textbooks for both the current and the previous grade**.

Summary: Programme of Assessment

Summary: Programme of Assessment

- **Both formal and informal assessment** should continue as normal, and as stated in the *Revised Section 4 of the Natural Sciences CAPS*;
- The development of **Science Process Skills** is key to the teaching and learning of the subject;
- **Recording** of informal assessment is left to the discretion of the teacher;
- Learners should **read** and **write regularly** to develop **language** skills as well;

Summary: Programme of Assessment

The 2021 formal assessment tasks for **Grade 9** are as follows:

TERM 1	TERM 2	TERM 3	TERM 4
<ul style="list-style-type: none">• Practical Task/ Investigation: 20 marks• Test: 70 marks	<ul style="list-style-type: none">• Practical Task/ Investigation: 20 marks• Test: 100 marks	<ul style="list-style-type: none">• Project: 30 marks• Test: 70 marks	<ul style="list-style-type: none">• Test: 100 marks

- For further details on **Weighting** please refer to the *Abridged Section 4* document

Summary: Programme of Assessment

The 2021 formal assessment tasks for **Grade 9** are as follows:

	Term 1		Term 2		Term 3		Term 4
Form of Assessment	Practical Task/ Investigation (40%)	Test (60%)	Practical Task/ Investigation (40%)	Examination (60%)	Project (40%)	Test (60%)	Examination
Tools of Assessment	Rubric/memo/checklist	Memo	Rubric/memo/checklist	Memo	Rubric/memo/checklist	Memo	Memo
Minimum Marks	20	70	20	100	30	70	100
SBA Weighting	6%	10%	6%		8%	10%	
Exam Weighting				30%			30%
Content and skills focus	Term 1	Term 1	Term 2	Term 1 (40%) Term 2 (60%)	Any content for the year	Term 3	Term 3 (60%) Term 4 (40%)
No. of Tasks	2		2		2		1

- For further details on **Weighting** please refer to the *Abridged Section 4* document

Contact details

Contact Details

Title	Name	Prov.	Cell. No.	E-mail
1	Mr Makhi Zihlangu	EC	083 663 7496	mzihlagu@yahoo.com
2	Ms Carmen Henecke	FS	064 656 6839	heneckec@gmail.com
3	Ms Mmamoriana Mokhatla	FS	086 545 8562	riamokhatla9@gmail.com
4	Mr Perumal Padayachee	Gauteng	084 664 6713	Perumal.Padayachee@gauteng.gov.za
5	Mr Zamuxolo Mkhize	KZN	083 564 2586	Zamuxolo.Mkhize@kzndoe.gov.za
6	Mr Peter Mukwevho	Limpopo	082 674 4951 082 674 6188	1petermukwevho@gmail.com
7	Mr Sipho Dlamini	Mpumalanga	076 236 4789	sndlamini89@gmail.com
8	Ms Denicia Myburgh	NC	083 276 4881	deniciam@gmail.com
9	Mr Molifi Motsuenyane	NW	083 235 2856 083 666 8254	motsuenyane@vodamail.co.za
10	Ms Suanne Rampou	WC	071 899 0633	suanne.rampou@westerncape.gov.za

A photograph of a wooden surface with a cream-colored card and a black pen. The card is tilted and has the words "Thank You" written in a large, bold, black serif font. A black pen with gold-colored accents is lying diagonally across the top right corner of the card.

**Thank
You**

