Every child is a National Asset

A THREE YEAR CURRICULUM RECOVERY GUIDELINE

Mediation of the National Recovery ATP

PHYSICAL SCIENCES

Grade 10 - 12

Implementation date : January 2021

basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Read to Lead

Presentation Outline

1. Purpose
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5. Underpinning assumptions
6. Key Recovery Strategies
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8. Amendments to the Annual Teaching Plan;
9. Amendments School Based Assessment (SBA)
10. Conclusion

Purpose

The Three Year Curriculum Recovery Guideline outlines the development of the three year recovery ATPs to manage learning loss over a period of three years **2021 Recovery ATPs as stipulated in Circular S13 of 2020**.

Introduction

COVID 19 led to losses in teaching and learning time due to:

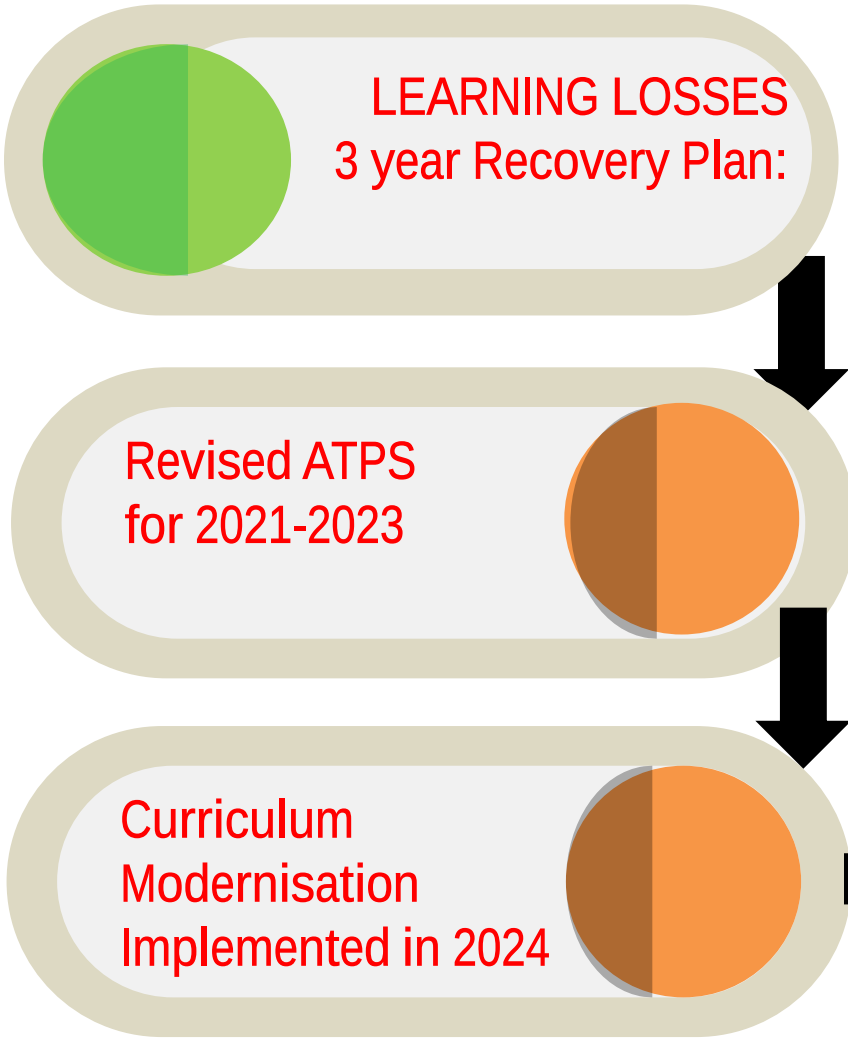
- the lockdown period and phased reopening of schools,
- Alternating time tabling models and
- the related health and safety protocols.

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

Vision 2024

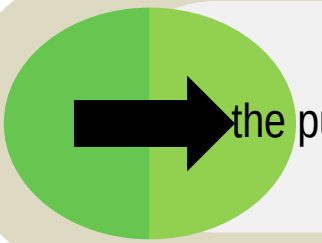


- Conceptualisation of a Curriculum Strengthening process that encompasses Competencies required for the Changing World;
- Develop Revised Modernised Curriculum Policy Statements in alignment with amended CAPS Section 4 and 2020 Assessment Circulars;
- Develop an Assessment for Learning pedagogical strategy, and
- Develop Educator Mediation Programmes.

Rationale for the Guideline

To outline the **process to develop** the Three-year Recovery Plan in managing the learning losses over a period of three years

RATIONALE FOR THIS GUIDELINE



LEARNING LOSSES the purpose of this exercise are defined as:

Learning Outcomes *(content, skills & competencies, values & attitudes) as stated in the revised ATPs not achieved during the 2020 school year.*

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

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

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

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

5

6

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.**

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 Q1 and Q3 of the 2021

The Development of the 2021 Recovery ATPs

The Recovery ATPs are aligned to the:

- 2021 School calendar
- Abridged S4 of CAPS
- Curriculum and assessment principles as prescribed in the CAPS policy for Physical Sciences.

Amendments to the Content Map for Grades 10-12 Physical Sciences

Summary: Amendments to the Content Overview for the Phase

Grade 10	Grade 11	Grade 12
*Trimmed * Reorganised *No amendment		
Mechanics	Mechanics	Mechanics
Introduction to vectors & scalars; Motion in one dimension (reference frame, position, displacement and distance, average speed, average velocity, acceleration, instantaneous velocity, instantaneous speed, description of motion in words, diagrams, graphs and equations.) **Energy** (gravitational potential energy, kinetic energy, mechanical energy, conservation of mechanical energy (in the absence of dissipative forces)	**Vectors in two dimensions** (resultant of perpendicular vectors, resolution of a vector into its parallel and perpendicular components), **Newton's Laws and Application of Newton's Laws** (Newton's first, second and third laws and Newton's law of universal gravitation, different kinds of forces: weight, normal force, frictional force, applied (push, pull), tension (strings or cables), force diagrams, free body diagrams and application of Newton's laws (equilibrium and non- equilibrium)	**Momentum and Impulse** (momentum, Newton's second law expressed in terms of momentum, conservation of momentum and elastic and inelastic collisions, Impulse) **Vertical projectile motion in one dimension (1D)** (vertical projectile motion represented in words, diagrams, equations and graphs) **Work, Energy & Power** (work, work-energy theorem, conservation of energy with non-conservative forces present, power)

Summary: Amendments to the Content Overview for the Phase

Grade 10	Grade 11	Grade 12
*Trimmed * Reorganised *No amendment		
Waves Sound and Light	Waves Sound and Light	Waves Sound and Light
Transverse pulses on a string or spring (pulse, amplitude superposition of pulses) **Transverse waves** (wavelength, frequency, amplitude, period, wave speed **Longitudinal waves** (on a spring, wavelength, frequency, amplitude, period, wave speed, sound waves) **Sound (**pitch, loudness, quality (tone), ultrasound) **Electromagnetic radiation** (dual (particle/ wave) nature of electromagnetic (EM) radiation, nature of EM radiation, EM spectrum, nature of EM as particle - energy of a photon related to frequency and wavelength)	**Removed Geometrical Optics** (Refraction, Snell's Law, Critical angles and total internal reflection), **Removed 2D & 3D Wave fronts** (Diffraction)	**Doppler Effect (either moving source or moving observer)** (with sound and ultrasound, with light - red shifts in the universe.)

Summary: Amendments to the Content Overview for the Phase

Grade 10	Grade 11	Grade 12
*Trimmed * Reorganised *No amendment		
ELECTRICITY AND MAGNETISM	**ELECTRICITY AND MAGNETISM**	**ELECTRICITY AND MAGNETISM**
Removed **Magnetism** **Electrostatics** (two kinds of charge, force exerted by charges on each other (descriptive), attraction between charged and uncharged objects (polarisation), charge conservation, charge quantization) **Electric circuits** (emf, potential difference (pd), current, measurement of voltage (pd) and current, resistance, resistors in parallel)	**Electrostatics** (Coulomb's Law, Electric field) **Electromagnetism** (Magnetic field associated with current-carrying wires, Faraday's Law). Removed all calculations on electromagnetism. **Electric circuits** (Energy, Power)	**Electric circuits** (internal resistance and series-parallel networks), **Electrodynamics** (electrical machines (generators, motors), alternating current)

Summary: Amendments to the Content Overview for the Phase

Grade 10	Grade 11	Grade 12
*Trimmed * Reorganised *No amendment		
MATTER AND MATERIALS	**MATTER AND MATERIALS**	**MATTER AND MATERIALS**
Revise matter and classification (materials; ~~heterogeneous and homogeneous mixtures~~; pure substances; names and formulas; metals and non-metals; electrical and thermal conductors and insulators; magnetic and nonmagnetic materials). **States of matter and the kinetic molecular theory**. **Atomic structure** (~~models of the atom~~; atomic mass and diameter; protons, neutrons and electrons; isotopes; energy quantization and electron configuration). **Periodic table** (position of the elements; similarities in chemical properties in groups, electron configuration in groups). **Chemical bonding** Covalent bonding; ionic bonding; metallic bonding **Removed Particles substances are made of**	**Molecular structure** (a chemical bond; electronegativity and bond polarity; bond energy and bond length). **Intermolecular forces** (chemical bonds revised; types of intermolecular forces; states of matter; density; kinetic energy; temperature; three phases of water (macroscopic properties related to sub-microscopic structure)). **Chemical bonding:** Removed *VSEPR* **Ideal gases and thermal properties:** Retained only *Kinetic molecular theory & Boyle's law*	**Optical phenomena and properties of materials** (photo-electric effect **Organic chemistry** (functional groups; saturated and unsaturated structures; isomers; naming and formulae; physical properties; chemical reactions (substitution, addition and elimination). **Organic macromolecules** (plastics and polymers)

Summary: Amendments to the Content Overview for the Phase

Grade 10	Grade 11	Grade 12
*Trimmed * Reorganised *No amendment		
CHEMICAL CHANGE	**CHEMICAL CHANGE**	**CHEMICAL CHANGE**
Physical and chemical change Separation by physical means; separation by chemical means; conservation of atoms and mass; law of constant composition. **Representing Chemical Change** **Removed reactions in aqueous solution** **Stoichiometry** Mole concept	**Stoichiometry** Molar volume of gases; concentration; limiting reagents; volume relationships in gaseous reactions **Energy and chemical change** Energy changes related to bond energy; exothermic and endothermic reactions; activation energy Types of Reactions	**Reaction rate** Factors affecting rate; measuring rate; mechanism of reaction and of catalysis **Chemical equilibrium** Factors affecting equilibrium; equilibrium constant; application of equilibrium principles **Acids and bases** Reactions; titrations, pH, salt hydrolysis **Electrochemical reactions** Electrolytic and galvanic cells; standard electrode potentials; oxidation and reduction half reaction and cell reactions; oxidation numbers

Summary: Amendments to the Content Overview for the Phase

Grade 10	Grade 11	Grade 12
*Trimmed * Reorganised *No amendment		
CHEMICAL SYSTEMS	CHEMICAL SYSTEMS	CHEMICAL SYSTEMS
Removed Hydrosphere	**Removed Lithosphere** Mining; energy resources	**Removed Chemical industry** Fertilizer industry Removed in accordance with abridged section 4

2021 -2023 National Recovery Teaching Plan Grade 10

2021-2023 Amendment Summary

Sub-topics were trimmed/removed in the following topics:

- **Matter and classification:** Heterogeneous and homogeneous mixtures
- **The atom:** Development of the atomic theory (history section)
- **Particles substances are made of**
- **Magnetism**

Sub-topics were reorganised in the following topics:

- **Transverse pulses on a string/spring:** Moved to Term 3
- **Transverse waves:** Moved to Term 3
- **Longitudinal waves:** Moved to Term 3
- **Sound:** Moved to Term 3
- **Electromagnetic radiation:** Moved to Term 4
- **Physical and chemical change** Moved to Term 3
- **Representing chemical change** Moved to Term 3
- **Electrostatics:** Moved to Term 1
- **Electric circuits:** Moved to Term 1/2

Summary: Reorganisation of content topics

TERM	TOPIC/CONCEPT REMOVED	TOPIC/CONCEPT RE-ORGANISED
1	• **Matter and classification:** Heterogeneous and homogeneous mixtures • **The atom:** Development of the atomic theory (history section)	• **Transverse pulses on a string/spring:** Moved to Term 3 • **Transverse waves:** Moved to Term 3 • **Longitudinal waves:** Moved to Term 3 • **Sound:** Moved to Term 3 • **Electromagnetic radiation:** Moved to Term 4

Summary: Reorganisation of content topics

TERM	TOPIC/CONCEPT REMOVED	TOPIC/CONCEPT RE-ORGANISED
2	• **Particles substances are made of** • **Magnetism**	• **Physical and chemical change** Moved to Term 3 • **Representing chemical change** Moved to Term 3 • **Electrostatics:** Moved to Term 1 • **Electric circuits:** Moved to Term 1/2

Summary: Reorganisation of content topics

TERM	TOPIC/CONCEPT REMOVED	TOPIC/CONCEPT RE-ORGANISED
3	• **Reactions in aqueous solution**	• **Vectors and scalars:** Moved to Term 2 • **Motion in one dimension:** Moved to Term 2 • **Instantaneous speed and velocity and the equations of motion:** Moved to Term 2
4	• **Hydrosphere**	**Energy:** Moved to Term 2

Summary: Content/Topics Amended

Content	Term	Amendment
Matter and classification: Heterogeneous and homogeneous mixtures	**1**	Removed sub-topic CAPS: p 16
The atom: Models of the atom	**1**	Removed sub-topic CAPS: p 20
Transverse pulses on a string/spring:	**1**	Moved to Term 3 CAPS: p 26
Transverse waves	**1**	Moved to Term 3 CAPS: p 27
Longitudinal waves	**1**	Moved to Term 3 CAPS: p 27, 28
Sound	**1**	Moved to Term 3 CAPS: p 28, 29
Electromagnetic radiation	**1**	Moved to Term 4 CAPS: p 29, 30, 31

Summary: Content/Topics Amended

Content	Term	Amendment
Particles substances are made of	**2**	Removed whole topic CAPS: p 32, 33, 34
Physical & Chemical Change	**2**	Moved to Term 3 CAPS: p 35, 36, 37
Representing Chemical Change	**2**	Moved to Term 3 CAPS: p 37
Magnetism	**2**	Removed whole topic CAPS: p 38, 39
Electrostatics	**2**	Moved to Term 1 CAPS: p 40, 41, 42
Electric circuits	**2**	Moved to Term 1/2 CAPS: p 42, 43, 44, 45

Summary: Content/Topics Amended

Content	Term	Amendment
Reactions in aqueous solutions	**3**	Removed whole topic CAPS: p 46, 47, 48, 49
Vectors and scalars	**3**	Moved to Term 2 CAPS: p 53
Motion in one dimension	**3**	Moved to Term 2 CAPS: p 54, 55
Instantaneous speed and velocity and the equations of motion	**3**	Moved to Term 2 CAPS: p 56, 57

Summary: Content/Topics Amended

Content	Term	Amendment
Energy	**4**	Moved to Term 2 CAPS: p 58, 59
The hydrosphere	**4**	Removed whole topic CAPS: p 60

TIME for Topics Amended

Content	Term	Amendment
Matter and classification (gr 9)	1	Time increased from 2 hrs to 6 hrs
States of Matter and the Kinetic Molecular Theory	1	Time increased from 2 hrs to 4 hrs
Chemical bonding	1	Time increased from 4 hrs to 6 hrs
Electrostatics	1	Time increased from 4 hrs to 8 hrs

TIME for Topics Amended

Content	Term	Amendment
Electric circuits	1/2	Time increased from 8 hrs to 10 hrs
Instantaneous speed and velocity and the equations of motion	2	Time increased from 8 hrs to 11 hrs

TIME for Topics Amended

Content	Term	Amendment
Quantitative aspects of chemical change	3	Time increased from 8 hrs to 12 hrs
Transverse pulses; Transverse waves; Longitudinal waves	3	Time increased from 8 hrs to 10 hrs
Sound	3	Time increased from 4 hrs to 6 hrs
Electromagnetic radiation	4	Time increased from 3.5 hrs to 8 hrs

4. Amendments School Based Assessment (SBA) Grade 10

Programme of Assessment for grade 10						
PROGRAMME OF ASSESSMENT FOR GRADE 10						
ASSESSMENT TASKS (25%)						**END-OF-YEAR ASSESSMENT (75%)**
TERM 1		**TERM 2**		**TERM 3**		**TERM 4**
Type	**Weighting and duration**	**Type**	**Weighting and duration**	**Type**	**Weighting and duration**	**Final Examination (2 x 100 marks giving a total of 200 marks for papers 1 and 2. Each paper having a duration of 2 hours)**
Experiment	12,5% (Minimum 50 marks and minimum 2 hour duration)	**Control Test**	25% (1 x 100 marks) 2 hours	**Experiment**	12,5% (Minimum 50 marks and minimum 2 hour duration)	
Control Test	25% (1 x 100 marks) 2 hours			**Control Test**	25% (1 x 100 marks) 2 hours	
Total Weighting: 37,5%		Total Weighting: 25%		Total Weighting: 37,5%		
FINAL MARK = 25% (ASSESSMENT TASKS) +75% (FINAL EXAM)=100%						
Assessment plan and weighting of tasks in the programme of assessment for Grade 10						

Summary: Revised Programme of Assessment

Term	Task	SBA Weighting
1	Experiment	12,5%
	Control Test	25%
2	Control Test	25%
3	Control Test	25%
	Experiment	12,5%

Summary: Revision Final Examination Structure

- The final exam paper will be TWO papers.
- The total will be 100 marks per paper and the duration will be 2 hours per paper.

Summary: Revision Final Examination Structure Paper 1

Knowledge Area	Weighting	Marks
Mechanics	45%	45
Waves, Sound & Light	30%	30
Electricity & Magnetism	25%	25
	TOTAL	**100**

Summary: Revision Final Examination Structure Paper 2

Knowledge Area	Weighting	Marks
Matter & Material	50%	50
Chemical Change	50%	50
Chemical Systems	0%	0
	TOTAL	**100**

5. Conclusion

Conclusion

- The ATP was designed to also cater for the discussion and corrections of the control tests and to address learning losses.
- 2 hours were allocated for the feedback on each control test.
- Time allocated per topic is a guideline – teaching might be shorter/longer depending on the situation in each school.
- Time allocated should be enough to complete the content, concepts and skills in the recovery ATP.
- Refer to the Recovery ATP and CAPS for further details of all content, concepts and skills.

2021 -2023 National Recovery Teaching Plan Grade 11

2021-2023 Amendment Summary

Sub-topics were trimmed/removed in the following topics:

- **Atomic combinations:** VSEPR Theory
- **Intermolecular forces**
  Chemistry of water
- **Geometrical optics**
- **2D and 3D wavefronts**
- **Ideal gases and thermal properties:**
  Charles' law, Gay Lussac, Ideal gas law
- **Electrodynamics:**
  Removed only Calculations
- **Exploiting the lithosphere**

Sub-topics were reorganised in the following topics:

- **Intermolecular forces:** Moved to Term 2
- **Ideal gases and thermal properties:** Moved to Term 3
- **Electrostatics:** Moved to Term 2
- **Types of reaction**' was amended: CAPS: p93 Bullet 5: Change to "Balance redox reaction equations by using ~~oxidation numbers via the ion-electron method~~ half-reactions from the Table of Standard Reduction Potentials."

Reorganisation of content topics

TERM	TOPIC/CONCEPT REMOVED	TOPIC/CONCEPT RE-ORGANISED
1	• **Atomic combinations:** VSEPR Theory • **Intermolecular forces** Chemistry of water	• **Intermolecular forces:** Moved to Term 2
2	• **Geometrical optics** • **2D and 3D wavefronts** • **Ideal gases and thermal properties:** Charles' law, Gay Lussac, Ideal gas law	**Ideal gases and thermal properties:** Moved to Term 3

Reorganisation of content topics

TERM	TOPIC/CONCEPT REMOVED	TOPIC/CONCEPT RE-ORGANISED
3	• **Electrodynamics:** Calculations only	• **Electrostatics:** Moved to Term 2 • **Types of reaction**' was amended: CAPS: p93 Bullet 5: Change to "Balance redox reaction equations by using ~~oxidation numbers via the ion-electron method~~ half-reactions from the Table of Standard Reduction Potentials."
4	• **Exploiting the lithosphere**	N/A

Summary: Content/Topics Amended

Content	Term	Amendment
Atomic combinations	**1**	Removed *VSEPR* CAPS: p 69
Intermolecular forces	**1**	• Topic moved to Term 2 • Removed *chemistry of water* CAPS: p 74, 75
Geometrical optics	**2**	Removed whole topic CAPS: p 76, 77
2D and 3D wavefronts	**2**	Removed whole topic CAPS: p 76, 77

Summary: Content/Topics Amended

Content	Term	Amendment
Ideal gases and thermal properties	**2**	Removed *Charles' law, Gay Lussac, Ideal gas law* CAPS: p 80 Retained CAPS p79 bullets 1 to 5; p80 bullets 1 & sub-bullets 1, 2, 4, 5; p81 bullets 2, 3 ,4 Moved to Term 3
Electrostatics	**3**	Moved to Term 2
Electrodynamics	**3**	Removed CAPS p87 bullet 4, 5; p88 bullet 1 *(calculations)*

Summary: Content/Topics Amended

Content	Term	Amendment
Types of reaction	**3/4**	Amended CAPS: p93 Bullet 5:
Exploiting the lithosphere	**4**	Removed whole topic CAPS: p 95-98

TIME for Content/Topics Amended

Content	Term	Amendment
Vectors in 2D	1	Time increased from 4 hrs to 6 hrs
Newton's laws	1	Time reduced from 23 hrs to 18 hrs
Atomic combinations	1	Time increased from 6 hrs to 7 hrs
Intermolecular forces	2	Time reduced from 10 hrs to 5 hrs

TIME for Content/Topics Amended

Content	Term	Amendment
Quantitative aspects of chemical change	2	Time increased from 12 hrs to 16 hrs
Electrostatics	2	Time increased from 6 hrs to 11 hrs
Electromagnetism	3	Time increased from 6 hrs to 8 hrs
Electric circuits	3	Time increased from 8 hrs to 11 hrs

TIME for Content/Topics Amended

Content	Term	Amendment
Types of reaction	3/4	Time increased from 12 hrs to 13 hrs

4. Amendments School Based Assessment (SBA) Grade 11

Programme of Assessment for grade 11						
PROGRAMME OF ASSESSMENT FOR GRADE 11						
ASSESSMENT TASKS (25%)						**END-OF-YEAR ASSESSMENT (75%)**
TERM 1		**TERM 2**		**TERM 3**		**TERM 4**
Type	**Weighting and duration**	**Type**	**Weighting and duration**	**Type**	**Weighting and duration**	**Final Examination (2 x 100 marks giving a total of 200 marks for papers 1 and 2. Each paper having a duration of 2 hours)**
Experiment	12,5% (Minimum 50 marks and minimum 2 hour duration)	**Control Test**	25% (1 x 100 marks) 2 hours	**Experiment**	12,5% (Minimum 50 marks and minimum 2 hour duration)	
Control Test	25% (1 x 100 marks) 2 hours			**Control Test**	25% (1 x 100 marks) 2 hours	
Total Weighting: 37,5%		Total Weighting: 25%		Total Weighting: 37,5%		
FINAL MARK = 25% (ASSESSMENT TASKS) +75% (FINAL EXAM)=100%						
Assessment plan and weighting of tasks in the programme of assessment for Grade 11						

Summary: Revised Programme of Assessment

Term	Task	SBA Weighting
1	Experiment	12,5%
	Control Test	25%
2	Control Test	25%
3	Control Test	25%
	Experiment	12,5%

Summary: Revision Final Examination Structure

- The final exam paper will be TWO papers.
- The total will be 100 marks per paper and the duration will be 2 hours per paper.

Summary: Revision Final Examination Structure Paper 1

Knowledge Area	Weighting	Marks
Mechanics	55%	55
Waves, Sound & Light	0%	0
Electricity & Magnetism	45%	45
	TOTAL	**100**

Summary: Revision Final Examination Structure Paper 2

Knowledge Area	Weighting	Marks
Matter & Material	45%	45
Chemical Change	55%	55
Chemical Systems	0%	0
	TOTAL	**150**

5. Conclusion

Conclusion

- The ATP was designed to also cater for the discussion and corrections of the control tests and to address learning losses.
- 2 hours were allocated for the feedback on each test.
- Time allocated per topic is a guideline – teaching might be shorter/longer depending on the situation in each school.
- Time allocated should be enough to complete the content, concepts and skills in the recovery ATP.
- Refer to the Recovery ATP and CAPS for further details of all content, concepts and skills.

2021 -2023 National Recovery Teaching Plan Grade 12

2021-2023 Amendment Summary

Sub-topics were trimmed/removed in the following topics:

Fertilisers (according to Abridged Section 4 CAPS)

Sub-topics were reorganised in the following topics:

None

Re-organisation of content topics

TERM	TOPIC/ CONCEPT REMOVED	TOPIC/CONCEPT RE-ORGANISED
1	None	None
2	None	None
3	**Fertilisers (according to Abridged Section 4 CAPS)**	None

Time for Content/Topics Amended

Content	Term	Amendment
Momentum and Impulse	1	Time reduced from 13 hrs to 10 hrs
Vertical projectile motion	1	Increased time from 5 hrs to 8 hrs
Organic molecules	1	Increased time from 12 hrs to 15 hrs
Work, energy and power	2	Time reduced from 10 hrs to 9 hrs

Time for Content/Topics Amended

Content	Term	Amendment
Rate and extent of reaction	2	Increased time from 4 hrs to 6 hrs
Acids and bases	2	Increased time from 8 hrs to 9 hrs
Electric circuits	3	Increased time from 4 hrs to 5 hrs
Electrodynamics	3	Reduced time from 8 hrs to 6 hrs

4. Amendments School Based Assessment (SBA) Grade 12

Table 5: Annual Assessment plan and weighting of tasks in the programme of assessment for grade 12						
PROGRAMME OF ASSESSMENT FOR GRADE 12						
INTERNAL ASSESSMENT (SBA)						**EXTERNAL ASSESSMENT**
ASSESSMENT TASKS (25%)						**END-OF-YEAR ASSESSMENT (75%)**
TERM 1		**TERM 2**		**TERM 3**		**TERM 4**
Type	**Weighting and duration**	**Type**	**Weighting and duration**	**Type**	**Weighting and duration**	**Final Examination (2 x 150 marks giving a total of 300 marks for papers 1 and 2) 3 hour duration for each of Papers 1and 2**
Experiment	15% (Minimum 50 marks and minimum 2 hour duration)	**Formal Test**	1 Paper Duration: 1 Hour (20%)	**Experiment**	15% (Minimum 50 marks and minimum 2 hour duration)	
Control Test	20% (1 x 100 marks) 2 hours duration 50 marks for Physics topics and 50 marks for Chemistry topics			**Preliminary Examination**	30% (2 x 150 marks) Paper 1: 150 marks Paper 2: 150 marks 3 hour duration for each of Papers 1 and 2	
Total Weighting: 35%		Total Weighting: 20%		Total Weighting: 45%		
FINAL MARK = 25% (ASSESSMENT TASKS) +75% (FINAL EXAM)=100%						

Summary: Revised Programme of Assessment

Term	Task	SBA Weighting
1	Experiment	15%
	Control Test	20%
2	Formal Test	20%
3	Experiment	15%
	Trial Examination	30%

Summary:
Examination Structure

- The **trial and final examinations** will each consist of two papers:

  Paper 1: Physics

  Paper 2: Chemistry

- The total of each paper will be 150 marks and the duration will be 3 hours each.

Summary: Examination Structure Paper 1

Knowledge Area	Weighting	Marks
Mechanics	43.3%	65
Waves, Sound & Light	10%	15
Electricity & Magnetism	36.7%	55
Matter & material	10%	15
	TOTAL	**150**

Summary: Examination Structure Paper 2

Knowledge Area	Weighting	Marks
Matter & Material	38.7%	58
Chemical Change	61.3%	92
Chemical Systems	0	0
	TOTAL	**150**

5. Conclusion

Conclusion

- The ATP also caters for the discussion and corrections of the March test, Formal Test and the Trial examination.
- Time allocated per topic is a guideline – teaching might be shorter/longer depending on the situation in each school.
- Time allocated should be enough to complete the content, concepts and skills in the recovery ATP.
- Learners should be encouraged to do revision outside the normal school hours.
- Refer to the Recovery ATP and CAPS for further details of all content, concepts and skills.

Stay safe

Stay healthy


Thank
You

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