

PHYSICAL SCIENCES

SCOPE FOR EXAMINATIONS 2021: **GRADE 10**

MARCH CONTROLLED TEST (100 marks)			
PAPER	TOPICS	MARK	DURATION
ONE PAPER ONLY	<p><u>Electricity & Magnetism:</u></p> <ul style="list-style-type: none"> ✓ Electrostatics 	25	2 hours
	<p><u>Matter and Materials:</u></p> <ul style="list-style-type: none"> ✓ Matter & Classification ✓ States of Matter and the KMT ✓ The Atom ✓ The Periodic Table ✓ Chemical Bonding 	75	
JUNE CONTROLLED TEST (100 marks)			
NB: June Controlled Test will assess second term work only.			
ONE PAPER ONLY	<p><u>Electricity & Magnetism:</u></p> <ul style="list-style-type: none"> ✓ Electric Circuits <p><u>Mechanics:</u></p> <ul style="list-style-type: none"> ✓ Vectors and Scalars ✓ Motion in 1-dimension ✓ Instantaneous Speed & Velocity ✓ Equations of Motion ✓ Graphs of Motion ✓ Energy & Conservation of Mechanical Energy 	100	2 hours

SEPTEMBER CONTROLLED TEST (100 marks)			
PAPER	TOPICS	MARKS	DURATION
ONE PAPER ONLY	<u>Waves, Sound & Light</u> <u>Waves</u> ✓ Transverse pulses on a string / spring ✓ Transverse Waves. ✓ Longitudinal Waves. <u>Sound</u> ✓ Frequency and Pitch ✓ Amplitude and Loudness ✓ Ultrasound	±40	2 hours
	<u>Chemical Change :</u> ✓ Physical and Chemical change ✓ Representing Chemical change ✓ Quantitative aspects of Chemical change	±60	

FINAL EXAMINATION: GRADE 10

FORMAT OF QUESTION PAPERS

Paper 1: Physics 2 hours	Paper 2: Chemistry 2 hours
SECTION A:	SECTION A:
Multiple-choice questions	Multiple-choice questions
SECTION B:	SECTION B:
Longer questions assessing all themes	Longer questions assessing all themes
Total: 100 marks	Total: 100 marks

MARK ALLOCATION PER KNOWLEDGE AREA: **FINAL EXAMINATIONS GR 10**

PAPER 1

Knowledge Area	Theme	Marks
Mechanics (± 45%)	Vectors & Scalars	45
	Motion in one dimension	
	Instantaneous Speed, Velocity & Equations of Motion	
	Energy & Conservation of Mechanical Energy	
Electricity and magnetism (± 25%)	Electrostatics	25
	Electrical Circuits	
Waves, Sound & Light (± 30%)	Transverse pulses on a string or spring	30
	Transverse and Longitudinal Waves	
	Sound	
	Electromagnetic Radiation	
TOTAL		100

PAPER 2

Knowledge Area	Theme	Marks
Matter and materials (±50 %)	Matter & Classification; Kinetic Molecular Theory Particles Substances are made of	50
	The Atom: Basic building blocks of Matter	
	Periodic Table	
	Chemical Bonding	
Chemical change (± 50%)	Physical & Chemical Change	50
	Representing Chemical Change	
	Quantitative aspects of Chemical Change	
TOTAL		100

COGNITIVE LEVELS

Cognitive level description	Weighting %	
	Paper 1	Paper 2
Remembering	15	15
Understanding	30	40
Applying and Analysing	45	35
Evaluating	10	10