



**PHYSICAL SCIENCES GRADE 10  
2020 COMMON TESTS AND EXAMINATION SCOPE**

**MARCH CONTROL TESTS**

PAPER	TOPICS	MARK	DURATION
Paper 1	<b>Waves, Sound &amp; Light:</b> <i>Transverse pulses on a string or spring, Transverse &amp; Longitudinal Waves, Sound and Electromagnetic Radiation.</i>	50	1 hour
Paper 2	<b>Matter &amp; Materials:</b> <i>Revision of Matter &amp; Classification, State of Matter Kinetic Molecular Theory, The Atom: Basic building blocks of Matter, Periodic Table, Chemical Bonding; <b>Particles substances are made of ( cf. molecular and ionic substances)</b></i>	50	1 hour

**Last date for this term work is 06 March 2020**

**MID-YEAR EXAMS**

**NB: Mid-year exams for all grades assess all the first and second term's work.**

PAPER	TOPICS	MARKS	DURATION
Paper 1	<b>Waves, Sound &amp; Light:</b> <i>Transverse pulses on a string or spring, Transverse &amp; Longitudinal Waves, Sound, Electromagnetic Radiation.</i> <b>Electricity &amp; Magnetism:</b> <i>Magnetism, Electrostatics, Electric Circuits.</i>	100	2 hours
Paper 2	<b>Matter &amp; Materials:</b> <i>Matter &amp; Classification, KMT, The Atom: Basic building blocks of Matter, Periodic Table, Chemical Bonding, Particles Substances are made of.</i> <b>Chemical Change:</b> <i>Physical &amp; Chemical Change, Representing Chemical Change;</i> <b>Reactions in aqueous solution</b>	100	2 hours

**SEPTEMBER CONTROL TESTS**

**NB: September control tests for grade 10 and 11 will assess all the 3 term's work or term 1, 2 and term 3 work.**

PAPER	TOPICS	MARK	DURATION
Paper 1	<b>Mechanics: 50%</b> <i>Vectors &amp; Scalars, Motion in one dimension, Instantaneous Speed, Velocity &amp; Equations of Motion.</i> <b>Energy (types) and conservation of mechanical energy</b>  <b>Waves, Sound &amp; Light: 20%</b> <i>Transverse pulses on a string or spring, Transverse &amp; Longitudinal Waves, Sound and Electromagnetic Radiation.</i>  <b>Electricity &amp; Magnetism: 30%</b> <i>Magnetism, Electrostatics, Electric Circuits.</i>	150	3 hours
Paper 2	<b>Matter &amp; Materials: 50%</b> <i>Matter &amp; Classification, KMT, The Atom: Basic building blocks of Matter, Periodic Table, Chemical Bonding, Particles Substances are</i>	150	3 hour

	made of. <b>Chemical Change: 50%</b> <i>Physical &amp; Chemical Change, Representing Chemical Change; Reactions in aqueous solution, Quantitative aspects of chemical change.</i>		
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**FINAL EXAMINATION: GRADE 10**

**FORMAT OF QUESTION PAPERS**

Paper 1: Physics 2 hours	Paper 2: Chemistry 2 hours
<b>SECTION A:</b> Multiple-choice questions	<b>SECTION A:</b> Multiple-choice questions
<b>SECTION B:</b> Conceptual questions assessing all themes	<b>SECTION B:</b> Conceptual questions assessing all themes
<b>Total: 150 marks</b>	<b>Total: 150 marks</b>

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

**PAPER 1**

Knowledge Area	Theme	Marks
Mechanics (50%)	Vectors & Scalars	75
	Motion in one dimension	
	Instantaneous Speed, Velocity & Equations of Motion	
	Energy	
Waves, sound and light (±26.7%)	Transverse pulses on a string or spring	40
	Transverse and Longitudinal Waves	
	Sound	
	Electromagnetic Radiation; Indigenous Knowledge Syst	
Electricity and magnetism (±23,3%)	Magnetism	35
	Electrostatics	
	Electric Circuits	
<b>TOTAL</b>		<b>150</b>

**PAPER 2**

Knowledge Area	Theme	Marks
Matter and materials (±46,7%)	Matter & Classification; Kinetic Molecular Theory	70
	The Atom: Basic building blocks of Matter	
	Periodic Table	
	Chemical Bonding	
	Particles Substances are made of	
Chemical change (40%)	Physical & Chemical Change	60
	Representing Chemical Change	
	Reactions in aqueous solution	
	Quantitative aspects of Chemical Change	
Chemical systems (±13.3%)	The Hydrosphere	20
<b>TOTAL</b>		<b>150</b>

**COGNITIVE LEVELS**

<b>Cognitive level description</b>	<b>Weighting %</b>	
	<b>Paper 1</b>	<b>Paper 2</b>
Remembering	15	15
Understanding	35	40
Applying and Analysing	40	35
Evaluating	10	10