KWAZULU-NATAL PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

PHYSICAL SCIENCES

SCOPE FOR CONTROL TESTS AND EXAMINATION 2024: GRADE 11

MARCH CONTROLLED TEST			
PAPER	**TOPICS**	**MARK**	**DURATION**
ONE PAPER ONLY	**Mechanics:** • Vectors in two dimensions, Different kinds of forces, Force diagrams, Free-body diagrams, • Newton`s First, Second andThird Laws. • Newton's Law of Universal Gravitation. **Electricity and Magnetism: Electrostatics** • Electric charge and charge transfer (grade 10) • Coulomb's Law, • Electric Fields.	100	2 hours

JUNE / MID-YEAR EXAMINATION			
NB: June / Mid-year examination will assess all the Term 1 and Term 2 work.			
PAPER	**TOPICS**	**MARK**	**DURATION**
PAPER 1	• Vectors in two dimensions • Newton's laws • Electrostatics • Electromagnetism • Electric circuits	75	1½ hours
PAPER 2	• Chemical bonding • Lewis diagrams and electron configuration • Writing of formulae • Molecular shapes • Electronegativity • Intermolecular forces	75	1½ hours

	SEPTEMBER CONTROL TEST		
PAPER	**TOPICS**	**MARKS**	**DURATION**
ONE PAPER ONLY	• Quantitative aspects of chemical change • Energy and chemical change • Acids and bases • Ideal gases and thermal properties	100	2 hours

FINAL EXAMINATION: GRADE 11	
Paper 1: Physics **3 hours**	**Paper 2: Chemistry** **3 hours**
SECTION A:	**SECTION A:**
Multiple-choice questions	Multiple-choice questions
SECTION B: Conceptual questions assessing all themes	**SECTION B:** Conceptual questions assessing all themes
Total: 150 marks	**Total: 150 marks**

MARK ALLOCATION PER KNOWLEDGE AREA: FINAL EXAMINATIONS GRADE 11

PAPER 1

Knowledge Area	Theme	Marks
Mechanics (±55%)	• Vectors in two dimensions • Newton's laws	83
Electricity and magnetism (±45%)	• Electrostatics • Electromagnetism • Electric circuits	67
	TOTAL	**150**

PAPER 2

Knowledge Area	Theme	Marks
Matter and Materials (±45%)	• Atomic combinations • Intermolecular forces • Ideal gases and thermal properties	67
Chemical Change (±55%)	• Quantitative aspectsof chemical change • Energy and chemical change • Acid – base reactions • Redox reactions	83
	TOTAL	**150**