

KWAZULU-NATAL PROVINCE

EDUCATION REPUBLIC OF SOUTH AFRICA

PHYSICAL SCIENCES SCOPE FOR EXAMINATIONS 2024: GRADE 12

MARCH CONTROLLED TEST (100 marks)			
PAPER	TOPICS	MARK	DURATION
	Mechanics Momentum & Impulse: ✓ Momentum, Newton's second law expressed in terms of Momentum, ✓ Conservation of momentum and Elastic and Inelastic collisions. Vertical Projectile Motion in One Dimension (1D): ✓ represented in words, diagrams, equations and graphs Grade 11 Work ✓ Newton's Laws (Newton 1, 2, 3) ✓ Newton's Law of Universal Gravitation) ✓ Applications of Newton's Laws	50	2 hours
ONE PAPER ONLY	Matter and Materials Organic molecules: Organic molecular structures - functional groups, saturated and unsaturated structures, isomers FUPAC naming and formulae Structure physical property relationships Applications of organic chemistry - Substitution, addition and elimination. (ONLY alkanes, alkenes, alkynes, alcohols, haloalkanes, carboxylic acids, and esters) Grade 11 Work Inter-molecular forces NB: Quantitative aspects of chemical change may be assessed across chemistry.	50	

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