



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
ONE PAPER ONLY	<u>Mechanics</u> 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
	<u>Matter and Materials</u> Organic molecules: ✓ Organic molecular structures - functional groups, saturated and unsaturated structures, isomers ✓ IUPAC 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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**Calcutta (India) University
commission. 1917-1919**



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and Journal of Physical Science ,1871 *Report* Calcutta University Commission,1919 **Report** India. Calcutta
University Commission,1919 **Classified replies to the Commissioners' questions** India. Calcutta University
Commission, 1917-1919,1919 **Abstracts of Theses** ,1943 **East India (Calcutta University Commission)** India.
Calcutta University Commission,1919 Report Calcutta (India) University commission. 1917-1919,1919 **The Public**
School Journal ,1908 **Journal of Pharmaceutical Sciences** ,1913 Vols for 1912 45 include proceedings of the
association s annual meeting **Report** Illinois. Civil Service Commission,1914 *School and Home Education* ,1907
Research in Education ,1973-12 *The Chemical News* ,1896 **Regulations and Courses for Internal Students**
University of London,1930 **The School World** ,1911 *Annual Report of the State Civil Service Commission of Illinois*
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