



**KWAZULU-NATAL PROVINCE**

EDUCATION  
REPUBLIC OF SOUTH AFRICA

**PHYSICAL SCIENCES  
SCOPE FOR EXAMINATIONS 2024: GRADE 12**

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

# Physical Science Grade 1paper 2 Scope 2014

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