



**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          |                 |

# Grade 12 June Physics Scope 2014

**Terry C. Jones**



## Grade 12 June Physics Scope 2014:

**Formal Concept Analysis** Cynthia Vera Glodeanu, Mehdi Kaytoue, Christian Sacarea, 2014-06-05 This book constitutes the refereed proceedings of the 12th International Conference on Formal Concept Analysis ICFCA 2014 held in Cluj Napoca Romania in June 2014 The 16 regular papers presented together with 3 invited talks were carefully reviewed and selected from 39 submissions The papers in this volume cover a rich range of FCA aspects such as theory enhanced FCA Knowledge discovery and knowledge spaces as well as methods and applications In addition the book contains a reprint of the first publication Sub direct decomposition of concept lattices by Rudolf Wille *Handbook of Research on Science Education, Volume II* Norman G. Lederman, Sandra K. Abell, 2014-07-11 Building on the foundation set in Volume I a landmark synthesis of research in the field Volume II is a comprehensive state of the art new volume highlighting new and emerging research perspectives The contributors all experts in their research areas represent the international and gender diversity in the science education research community The volume is organized around six themes theory and methods of science education research science learning culture gender and society and science learning science teaching curriculum and assessment in science science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand the historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research the Handbook of Research on Science Education Volume II is an essential resource for the entire science education community **Stem Cell-Derived Exosome Therapy of Microbial Diseases: From Bench to Bed** Amin Tamadon, Reza Shirazi, Nader Tanideh, 2022-03-16 **The New International Year Book** ,1929 *The New International Year Book* Frank Moore Colby, Allen Leon Churchill, Herbert Treadwell Wade, Frank H. Vizetelly, 1929 Oregon Administrative Rules Compilation ,2014 **Comprehensive Dissertation Index** ,1984 **Who's who in America** ,1995 *New Statesman* ,1960 **The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray, 1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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