



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	

Physical Science Paper Grade Scope

Steven J. Rakow



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Resources in Education ,2001-04 **Research in Education** ,1974 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress,1968 **Pathways to the Science Standards** Steven J. Rakow,1998 The purposes of this guide are to demonstrate how to apply the National Science Education Standards to the real world of the middle school classroom and to serve as a tool for collaboration among principals state and local administrators parents and school board members Different sections focus on science teaching standards professional development standards assessment standards content standards program standards and system standards The unifying concepts and processes discussed in the content standards include science as inquiry physical science life science earth and space science science and technology science in personal and social perspectives and the history and nature of science The appendices contain an account of the relevant history of the National Science Education Standards the actual National Science Education Standards and ideas about the design of middle school science facilities DDR *Research in Education* ,1973 **Intelligent Systems and Sustainable Computational Models** Rajganesh Nagarajan,Senthil Kumar Narayanasamy,Ramkumar Thirunavukarasu,Pethuru Raj,2024-06-03 The fields of intelligent systems and sustainability have been gaining momentum in the research community They have drawn interest in such research fields as computer science information technology electrical engineering and other associated engineering disciplines The promise of intelligent systems applied to sustainability is becoming a reality due to the recent advancements in the Internet of Things IoT Artificial Intelligence Big Data blockchain deep learning and machine learning The emergence of intelligent systems has given rise to a wide range of techniques and algorithms using an ensemble approach to implement novel solutions for complex problems associated with sustainability Intelligent Systems and Sustainable Computational Models Concepts Architecture and Practical Applications explores this ensemble approach towards building a sustainable future It explores novel solutions for such pressing problems as smart healthcare ecosystems energy efficient distributed computing affordable renewable resources mitigating financial risks monitoring environmental degradation and balancing climate conditions The book helps researchers to apply intelligent systems to computational sustainability models to propose efficient methods techniques and tools The book covers such areas as Intelligent and adaptive computing for sustainable energy water and transportation networks Blockchain for decentralized systems for sustainable applications systems and infrastructure IoT for sustainable critical infrastructure Explainable AI XAI and decision making models for computational sustainability Sustainable development using edge computing fog computing and cloud computing Cognitive intelligent systems for e learning Artificial Intelligence and machine learning for large scale data Green computing and cyber physical systems Real time applications in healthcare agriculture smart cities and smart governance By examining how intelligent systems can build a sustainable society the book presents systems solutions that can benefit researchers and professionals in such fields as information technology health energy agricultural manufacturing and

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,1995 **Thesaurus of ERIC Descriptors** ,1990 4th 7th eds contain a special chapter on The role and function of the
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