



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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Mathematics, Science, and Technology Education Programs that Work, 1994 **Sustainable Agriculture Reviews** Eric Lichtfouse, 2013-02-12 Sustainable agriculture is a rapidly growing field aiming at producing food and energy in a sustainable way for humans and their children Sustainable agriculture is a discipline that addresses current issues such as climate change increasing food and fuel prices poor nation starvation rich nation obesity water pollution soil erosion fertility loss pest control and biodiversity depletion Novel solutions are proposed based on integrated knowledge from sciences as diverse as agronomy soil science molecular biology chemistry toxicology ecology economy philosophy and social sciences Because actual society issues are now intertwined global and fast developing sustainable agriculture will bring solutions to build a safer world This book series gathers review articles that analyze current agricultural issues and knowledge then propose alternative solutions It will therefore help all scientists decision makers professors farmers and politicians who wish to build a safe agriculture energy and food system for future generations **Resources in Education**, 1990 **Misc**, 1954 **Bulletin ... Misc[ellaneous]** United States. Office of Education, 1958 **English Mechanic and Mirror of Science and Art**, 1922 **Public School Finance Programs of the United States, 1957-58** Albert Ralph Munse, Eugene Peter McLoone, 1960 **Methodologies and Intelligent Systems for Technology Enhanced Learning, 13th International Conference** Marcelo Milrad, Nuno Otero, María Cruz Sánchez-Gómez, Juan José Mena, Dalila Durães, Filippo Sciarrone, Claudio Alvarez-Gómez, Manuel Rodrigues, Pierpaolo Vittorini, Rosella Gennari, Tania Di Mascio, Marco Temperini, Fernando De la Prieta, 2023-08-31 Education is the cornerstone of any society it serves as one of the foundations for many of its social values and characteristics mis4TEL 23 promotes the interaction among the scientific community to discuss applications of Technology Enhanced Learning solutions targeting not only cognitive and social processes but also motivational personality or emotional factors In addition current trends concerning the use of artificial intelligence can help and augment learning opportunities for learners and educators The 13th International Conference on Methodologies and Intelligent Systems for Technology Enhanced Learning mis4TEL 23 technical program includes 26 contributions 13 full papers and 13 short papers mis4TEL 23 is hosted by the LASI and Centro Algoritmi of the University of Minho Portugal The authors would like to thank all the contributing authors the members of the Program Committee National Associations AEPIA and APPIA and the sponsors AIR Institute and Camara Municipal de Guimar es **Nuclear Science Abstracts**, 1973 **Hearings, Reports and Prints of the House Committee on Appropriations** United States. Congress. House. Committee on Appropriations, 1965

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