



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 Grade 1paper 2 Scope 2014

M Mosston



Physical Science Grade 1 paper 2 Scope 2014:

Goal and Scope Definition in Life Cycle Assessment Mary Ann Curran, 2016-09-22 This book describes the importance of the goal and scope phase for the entire LCA study In this first phase of the LCA framework ISO standardized the purpose of the assessment is defined and decisions are made about the details of the industrial system being studied and how the study will be conducted Selecting impact categories category indicators characterization models and peer review is decided during goal and scope definition The book provides practical guidance and an overview of LCIA methods available in LCA software Although not specified in the ISO standards Attributional LCA and Consequential LCA are presented in order to appropriately determine the goal and scope of an assessment The book closes with the interconnection between goal and scope definition and the interpretation phase Example goal and scope documents for attributional and consequential LCAs are provided in the annexes *Journal of the Physical Society of Japan*, 2014

Learning Science Barbara Schneider, Joseph Krajcik, Jari Lavonen, 2020-02-11 An innovative internationally developed system to help advance science learning and instruction for high school students This book tells the story of a 3 6 million research project funded by the National Science Foundation aimed at increasing scientific literacy and addressing global concerns of declining science engagement Studying dozens of classrooms across the United States and Finland this international team combines large scale studies with intensive interviews from teachers and students to examine how to transform science education Written for teachers parents policymakers and researchers this book offers solutions for matching science learning and instruction with newly recommended twenty first century standards

Biomedical Visualisation Paul M. Rea, 2020-11-19 This edited book explores the use of technology to enable us to visualise the life sciences in a more meaningful and engaging way It will enable those interested in visualisation techniques to gain a better understanding of the applications that can be used in visualisation imaging and analysis education engagement and training The reader will be able to explore the utilisation of technologies from a number of fields to enable an engaging and meaningful visual representation of the biomedical sciences with a focus in this volume related to anatomy and clinically applied scenarios The first six chapters in this volume show the wide variety of tools and methodologies that digital technologies and visualisation techniques can be utilised and adopted in the educational setting This ranges from body painting clinical neuroanatomy histology and veterinary anatomy through to real time visualisations and the uses of digital and social media for anatomical education The last four chapters represent the diversity that technology has to be able to use differing realities and 3D capture in medical visualisation and how remote visualisation techniques have developed Finally it concludes with an analysis of image overlays and augmented reality and what the wider literature says about this rapidly evolving field

Resources in Education, 1984 *Proceedings of the 5th International Asia Conference on Industrial Engineering and Management Innovation (IEMI2014)* Ershi Qi, Qin Su, Jiang Shen, Feng Wu, Runliang Dou, 2015-01-19 The 5th International Asia Conference on Industrial Engineering and Management Innovation

is sponsored by the Chinese Industrial Engineering Institution and organized by Xi'an Jiaotong University. The conference aims to share and disseminate information on the most recent and relevant researches, theories and practices in industrial and system engineering to promote their development and application in university and enterprises. *Civil Engineering and Urban Planning IV* Yuan-Ming Liu, Dong Fu, Zhen-Xin Tong, Zhi-Qing Bao, Bin Tang, 2016-10-28. Civil Engineering and Urban Planning IV includes the papers presented at the 4th International Conference on Civil Engineering and Urban Planning, CEUP 2015, Beijing, China, 25-27 July 2015. The contributions from experts and world-renowned scientists cover a wide variety of topics: Civil engineering, Architecture and urban planning, Transport. **Complex Problem Solving Beyond the**

Psychometric Approach Wolfgang Schoppek, Joachim Funke, Magda Osman, Annette Kluge, 2018-09-28. Complex problem solving (CPS) and related topics such as dynamic decision making (DDM) and complex dynamic control (CDC) represent multifaceted psychological phenomena. In a broad sense, CPS encompasses learning, decision making and acting in complex and dynamic situations. Moreover, solutions to problems that people face in such situations are often generated in teams or groups. This adds another layer of complexity to the situation itself because of the emerging issues that arise from the social dynamics of group interactions. This framing of CPS means that it is not a single construct that can be measured by using a particular type of CPS task, e.g. minimal complex system tests, which is a view taken by the psychometric community. The proposed approach taken here is that because CPS is multifaceted, multiple approaches need to be taken to fully capture and understand what it is and how the different cognitive processes associated with it complement each other. Thus, this Research Topic is aimed at showcasing the latest work in the fields of CPS as well as DDM and CDC that takes a holistic approach to investigating and theorizing about these abilities. The collection of articles encompasses conceptual approaches as well as experimental and correlational studies involving established or new tools to examine CPS, DDM and CDC. This work contributes to answering questions about what strategies and what general knowledge can be transferred from one type of complex and dynamic situation to another, what learning conditions result in transferable knowledge and skills and how these features can be trained. **International Encyclopedia of Public Health** William C. Cockerham, 2016-10-06. International Encyclopedia of Public Health, Second Edition, Seven Volume Set is an authoritative and comprehensive guide to the major issues, challenges, methods and approaches of global public health. Taking a multidisciplinary approach, this new edition combines complementary scientific fields of inquiry, linking biomedical research with the social and life sciences to address the three major themes of public health research: disease, health processes and disciplines. This book helps readers solve real-world problems in global and local health through a multidisciplinary and comprehensive approach. Covering all dimensions of the field, from the details of specific diseases to the organization of social insurance agencies, the articles included cover the fundamental research areas of health promotion, economics and epidemiology as well as specific diseases such as cancer, cardiovascular diseases, diabetes and reproductive health. Additional articles on the history of public health, global issues

research priorities and health and human rights make this work an indispensable resource for students health researchers and practitioners alike Provides the most comprehensive high level internationally focused reference work available on public health Presents an invaluable resource for both researchers familiar with the field and non experts requiring easy to find relevant global information and a greater understanding of the wider issues Contains interdisciplinary coverage across all aspects of public health Incorporates biomedical and health social science issues and perspectives Includes an international focus with contributions from global domain experts providing a complete picture of public health issues

Teaching and learning human-computer interaction (HCI): Current and emerging practices Audrey Girouard,Anirudha Joshi,Jin Kang,Craig M. MacDonald,Olivier St-Cyr,Karin Slegers,Ahmed Kharrufa,Toni Granollers Saltiveri,2023-03-27

Textbook of Critical Care E-Book Jean-Louis Vincent,Frederick A. Moore,Rinaldo Bellomo,John J. Marini,2022-12-21 Bridging the gap between medical and surgical specialties in critical care Textbook of Critical Care 8th Edition offers a practical multidisciplinary approach to the effective management of adult and pediatric patients in the ICU An outstanding editorial team led by world renowned intensivist Dr Jean Louis Vincent assisted by Dr Frederick A Moore and new editors Drs Rinaldo Bellomo and John J Marini provides the evidence based guidance you need to overcome a full range of practice challenges A full color art program relevant basic science and key summary points in every chapter and expert contributing authors from all over the world make this an indispensable resource for every member of the critical care team Provides a concise readable understanding of the pathophysiology of critical illness and new therapeutic approaches to critical care Addresses both medical and surgical aspects in critical care for adult and pediatric patients in one comprehensive easy to use reference Shares the knowledge and expertise of the most recognized and trusted leaders in the field with more international contributing authors than in previous editions Covers new information on procedural and diagnostic ultrasound prone positioning ECMO and VADs Discusses key topics such as organ support telemedicine echocardiography antibiotic stewardship antiviral agents coagulation and anti coagulation and more Features a wealth of tables boxes algorithms diagnostic images and key points that clarify important concepts and streamline complex information for quick reference Includes companion videos and exclusive chapters online that cover commonly performed procedures Takes a multidisciplinary approach to critical care with contributions from experts in anesthesia surgery pulmonary medicine and pediatrics Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

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