

GRADE 11 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1-1.6) on your folio paper. Example 1.7: D.

- 1.1 The graphs below show the relationship between the net force and the acceleration for two masses X and Y.



Which one of the following statements is true?

- A. Mass of X is greater than mass of Y.
B. Acceleration of X is greater than acceleration of Y.
C. Mass of Y is greater than mass of X.
D. The slope of X is greater than the slope of Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A car moving with constant acceleration.
B. A ball falling from the sky to the ground with constant acceleration.
C. A car moving with constant velocity on a straight road.
D. A car moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving upwards with constant velocity.
B. An object moving upwards with constant acceleration.
C. An object moving upwards with constant velocity.
D. An object moving upwards with constant acceleration.
- 1.4 The inertia of an object...
- A. is greater for a heavier object.
B. depends on the speed of the object.
C. is the resistance to any change in its state of motion.
D. depends on the mass of the object.
- 1.5 An astronaut has a weight F_g on Earth. What distance, in terms of the radius of the Earth (r), will the astronaut be if his weight is a 1/4 of his weight (F_g) on the

surface of the Earth?

- A. $2r$
B. r
C. $1.5r$
D. $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.
B. The box is too light.
C. The box is too big.
D. The box is too small.

[14]

QUESTION 2

The grade 11 learners learn that there is more than one way to determine the resultant of two vectors. One way is the component method. They want to use this method to find the resultant of the forces acting on a bucket by the ropes from which the bucket is suspended. The bucket is stationary.

- 2.1 Draw the free-body diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of 30° to the vertical and the tension in Q is 51,52N at 45° to the vertical.



Calculate the MAGNITUDE of the:

- 2.2.1 Resultant of the components of P and Q horizontally. (4)
2.2.2 Resultant of the components of P and Q vertically. (4)
2.2.3 Resultant of the horizontal components. (5)
2.2.4 Resultant of the vertical components. (5)
2.2.5 Resultant of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

Physical Science Grade 11 March Test 2013 Papers

Daniel F McAuley



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Science Education Research and Practice in Asia Mei-Hung Chiu, 2016-06-10 This book discusses the scope of science education research and practice in Asia. It is divided into five sections: the first consists of nine chapters providing overviews of science education in Asia (China, Lebanon, Macau, Malaysia, Mongolia, Oman, Singapore, Taiwan, and Thailand). The second section offers chapters on content analysis of research articles, while the third includes three chapters on assessment and curriculum. The fourth section includes four chapters on innovative technology in science education, and the fifth section consists of four chapters on professional development and informal learning. Each section also has additional chapters providing specific comments on the content. This collection of works provides readers with a starting point to better understand the current state of science education in Asia. **The Complete Book of Colleges, 2013 Edition** Princeton Review, 2012-08-07 Profiles every four-year college in the United States, providing detailed information on academic programs, admissions requirements, financial aid services, housing, athletics, contact names, and campus life. Primary Science Education in East Asia Yew-Jin Lee, Jason Tan, 2018-09-26 This edited volume is a state-of-the-art comparison of primary science education across six East Asian regions: namely, the People's Republic of China, Republic of Korea, Republic of China (Hong Kong SAR), Japan, and Singapore. While news of educational policies, classroom teaching, assessment, and other educational innovations here often surface in the international media, this book brings together for the first time relevant information regarding educational systems and strategies in primary science in East Asia. Above all, it is a readable yet comprehensive survey; readers would have an accurate sense of what has been accomplished, what has not worked so well, and what remains to be done. Invited experts in comparative education research and/or science education also provide commentary by discussing common themes across the six regions. These types of critical synoptic reviews add much value by enabling readers to understand broad commonalities and help synthesize what must surely be a bewildering amount of very interesting, albeit confusing, body of facts, issues, and policies. Education in East Asia holds many lessons, both positive and negative, to offer to the rest of the world, to which this volume is a timely contribution to the literature. **Understanding**

Physics Using Mathematical Reasoning Andrzej Sokolowski, 2021-08-20 This book speaks about physics discoveries that intertwine mathematical reasoning, modeling, and scientific inquiry. It offers ways of bringing together the structural domain of mathematics and the content of physics in one coherent inquiry. Teaching and learning physics is challenging because students lack the skills to merge these learning paradigms. The purpose of this book is not only to improve access to the understanding of natural phenomena but also to inspire new ways of delivering and understanding the complex concepts of physics. To sustain physics education in college classrooms, authentic training that would help develop high school students' skills of transcending function modeling techniques to reason scientifically is needed, and this book aspires to offer such training. The book draws on current research in developing students' mathematical reasoning. It identifies areas for

advancements and proposes a conceptual framework that is tested in several case studies designed using that framework Modeling Newton's laws using limited case analysis Modeling projectile motion using parametric equations and Enabling covariational reasoning in Einstein formula for the photoelectric effect represent some of these case studies A wealth of conclusions that accompany these case studies drawn from the realities of classroom teaching is to help physics teachers and researchers adopt these ideas in practice

Towards a Psychophysiological Approach in Physical Activity, Exercise, and Sports Pedro Forte, Daniel Leite Portella, Diogo Monteiro, José Eduardo Teixeira, 2023-10-30 In recent years there has been an increase in interest in mental health disorders as a result of mediatic coverage of Olympic athletes mental health struggles and also due to the COVID 19 pandemic lockdowns These phenomena helped to further exacerbate a problem already extensively present in sport and society Therefore applying a psychophysiological approach to physical activity exercise and sports research has become very popular Indeed mental fatigue and mental disorders are not only psychological in origin but also require an explanation from a psychophysiological perspective due to the effective interconnection between the psychological and physiological dimensions Psychological variables can also influence performance and the psychophysiological system has a strong effect on the control of physical capacities Moreover pacing behaviour decision making self regulation and effort perception can also explain the role of the brain in physical activity and exercise management Thus the aim of this Research Topic is to share the impact of a psychophysiological approach in physical activity exercise and sports

Complete Book of Colleges, 2005 Edition Princeton Review (Firm), 2004-07-20 Up to date information on 1 780 colleges and universities

Physical Separation and Enrichment Saeed Farrokhpay, 2020-04-01 This book includes 12 papers from around the world on topics related to physical separation and enrichment in mineral processing Physical separation is commonly used in the mineral industry to separate valuable minerals from gangues using differences in their physical properties Physical separation methods have several advantages over other mineral processing techniques due to their high efficiency low capital and operating costs no additional chemicals required and consequently lower environmental hazard They can be applied to the ores from mines or tailings or in the recycling stage for scavenging the desired elements

Research in Education, 1970 *Conference Proceedings. The Future of Education. 8th Edition* Pixel, 2018

Bituminous Mixtures and Pavements VI A. Nikolaidis, 2015-07-28 Bituminous Mixtures and Pavements contains 113 accepted papers from the 6th International Conference Bituminous Mixtures and Pavements 6th ICONFBMP Thessaloniki Greece 10-12 June 2015 The 6th ICONFBMP is organized every four years by the Highway Engineering Laboratory of the Aristotle University of Thessaloniki Greece in conjunction with

Ebook: Child Development: An Introduction John Santrock, 2014-10-16 Accurate Reliable Engaging These are just a few of the words used by adopters and reviewers of John Santrock's Child Development The new topically organised fourteenth edition continues with Santrock's highly contemporary tone and focus featuring over 1 000 new citations The popular Connections theme shows students the

different aspects of children's development to help them better understand the concepts Used by hundreds of thousands of students over thirteen editions Santrock's proven learning goals system provides a clear roadmap to course mastery *The Emergence of Geophysics: A Journey into the Twentieth Century* R.J. Howarth, 2024-12-02 How did geophysics begin Who were the pioneers of this new science What instruments did they devise to measure the Earth related phenomena they were interested in This Memoir attempts to answer such questions in a well illustrated and largely non technical account The seventeenth century saw magnetism used as an aid to prospecting for iron ore in Sweden and Isaac Newton's derivation of the law of gravitational attraction A gradually increasing interest in physics of the Earth brought forth the new discipline of geophysics in the early nineteenth century and by the end of the following century airborne and satellite based investigations had become routine The Emergence of Geophysics explores this evolution in several parallel strands terrestrial magnetism and electricity gravity seismicity heat geodynamics and radioactivity broadly reflecting the timing of their introduction as tools aiding geophysical studies Biographical information is included for many of its practitioners and the book should be of interest to both geophysicists and to anyone interested in the history of Earth science **Foundations of Education** Leslie S. Kaplan, William A. Owings, 2022-01-21 Foundations of Education makes core topics in education accessible and personally meaningful to students pursuing a career within the education profession The Third Edition offers readers the breadth of coverage scholarly depth and conceptual analysis of contemporary issues that will help them gain a realistic and insightful perspective of the field *Organization and Administration of Physical Education* Jayne D. Greenberg, Judy L. LoBianco, 2025-03-11 The revised SHAPE America National Physical Education Standards are defining physical education PE programs providing the framework for students physical literacy journeys Organization and Administration of Physical Education Theory and Practice Second Edition With HKPropel Access incorporates the revised standards making it the text administrators need to learn how the standards affect curriculum development and implementation of a successful PE program This edition is thoroughly updated by two award winning educators Jayne Greenberg and Judy LoBianco who are joined by a sterling list of contributors who have taught at every education level in urban suburban and rural settings In this second edition the roles and responsibilities of PE administrators are examined through theoretical and practical lenses Beyond incorporating the revised PE standards and the latest research throughout other enhancements to this edition include the following An expanded technology chapter that addresses equity and the digital divide remote learning virtual and augmented reality and artificial intelligence A more comprehensive chapter on teacher and program evaluation A new chapter on social emotional learning SEL with connections between content pedagogy and practices A new chapter on diversity equity and inclusion that provides culturally responsive teaching approaches to elevate the participation of underrepresented teachers and students New content for physical education department chairpersons The result is an essential manual for future and current administrators in PE leadership positions who want to acquire new skills in the

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Mind the gap: To what extent do social, economic, and psychological factors explain underperformance in achievements assessments? Identifying interventions to narrow the gap Marcos Cupani, Ana E. Azpilicueta, Jose Juan Gongora, Sebastian Urquijo, 2023-10-06

Transformational Teaching Kenneth S. Coley, Martha E. MacCullough, Deborah L. MacCullough, 2023-02-15

Transformational Teaching by Kenneth Coley Martha MacCullough and Debbie MacCullough provides a comprehensive Christ centered introduction to instructional design and effective teaching It will be useful for education courses teachers in training and experienced teachers who want to elevate their pedagogy from a Christian framework

Health and Elite Sport Joe Baker, Parissa Safai, Jessica Fraser-Thomas, 2014-10-17 *Health and Elite Sport* is the first book to critically examine the relationship between participation in high performance sport and health outcomes Drawing on theory and empirical data from a wide range of disciplines including sociology developmental psychology epidemiology and physical education the book explores the benefits and detriments of participation in elite sport for both individuals athletes coaches spectators and communities Written by a team of leading international sport researchers the book examines key issues including Talent identification and young athletes Abuse in sport Positive youth development through sport Athlete health in periods of transition Health sport and the family Health in professional sport The Olympics Paralympics and public health Long term effects of participation in elite sport Highlighting the connections and contradictions between high performance sport and health the book also discusses the clear and important implications for our socio cultural political and developmental understanding of sport *Health and Elite Sport* is fascinating and important reading for all students and researchers with an

interest in youth sport sports development sport policy sports coaching exercise and health physical education the sociology of sport or the sociology of health Treatise on Geophysics ,2015-04-17 Treatise on Geophysics Second Edition is a comprehensive and in depth study of the physics of the Earth beyond what any geophysics text has provided previously Thoroughly revised and updated it provides fundamental and state of the art discussion of all aspects of geophysics A highlight of the second edition is a new volume on Near Surface Geophysics that discusses the role of geophysics in the exploitation and conservation of natural resources and the assessment of degradation of natural systems by pollution Additional features include new material in the Planets and Moon Mantle Dynamics Core Dynamics Crustal and Lithosphere Dynamics Evolution of the Earth and Geodesy volumes New material is also presented on the uses of Earth gravity measurements This title is essential for professionals researchers professors and advanced undergraduate and graduate students in the fields of Geophysics and Earth system science Comprehensive and detailed coverage of all aspects of geophysics Fundamental and state of the art discussions of all research topics Integration of topics into a coherent whole

Australian Education Index ,1980 *Shifting to Digital* James A. Bellanca,Gwendolyn Battle Lavert,Kate Bellanca,2022-01-04 Rely on *Shifting to Digital* to deliver clear and concise answers to all of your remote teaching questions This comprehensive guide provides specific strategies for planning high engagement instruction handling technology assessing collaboration and assignments and more You ll also gain access to a helpful list of digital tools along with online specific lessons and projects for various subjects Learn how to engage and manage multiple students online at one time Create effective lesson plans that incorporate synchronous and asynchronous instruction based on best practice cooperative learning and project based learning Gauge students executive function and increase their self direction a crucial part of online learning Understand how to best teach and support English learners and students with special needs Plan communications for students parents and guardians that address technology procedures expectations and privacy Contents Introduction Chapter 1 Technology Chapter 2 Instructional Planning Chapter 3 Document Handling Chapter 4 Mindful Engagement Chapter 5 Positive Interaction and Social Emotional Learning Chapter 6 Feedback Chapter 7 Assessment Chapter 8 Students With Special Needs Chapter 9 Communication With Parents and Guardians Epilogue Appendix Distance Learning Lesson and Project Designs References and Resources Index

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various compressor types vary in capacity to specify particular application of compressor equipment amount of inlet air
consumed upon a particular given time prior to compression is also considered a unit capacity

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low speed centrifugal compressor without and with partial shroud ps fitted on to the rotor blade tip at three values of tip
clearance viz 2 2 5 1 and 7 9 of rotor blade height at the exit at three flow