

GRADE 10 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 (1.1-1.5) on your folio paper. Example 1.6. D.

- 1.1 A positively charged object has:
 - A. an attraction to electrons.
 - B. a repulsion of electrons.
 - C. an attraction of protons.
 - D. a repulsion of protons.
- 1.2 Which one of the following types of electromagnetic waves has the **LONGEST** wavelength?
 - A. Radio waves
 - B. X-rays
 - C. Microwaves
 - D. Visible light
- 1.3 In which **ONE** of the following do sound waves travel the **FASTEST**?
 - A. Gases
 - B. Liquids
 - C. Solids
 - D. Vacuum
- 1.4 The SI unit for charge is the ...
 - A. Coulomb
 - B. Volt
 - C. Ohm
 - D. Ampere
- 1.5 The relationship between voltage and work done is:
 - A. Current
 - B. Directly proportional
 - C. Inversely proportional
 - D. Indirectly proportional

[10]

QUESTION 2

Below is a representation of two waves consisting of continuous pulses. Study it carefully and answer the questions that follow.



- 2.1 Define a **pulse**. (2)
- 2.2 Identify the type of waves illustrated above as **TRANSVERSE** or **LONGITUDINAL**. (2)
- 2.3 Which one of the two waves, P or Q, has the greatest amplitude? (1)
- 2.4 For Wave Q:
 - 2.4.1 What is the magnitude of its wavelength in metres? (1)
 - 2.4.2 Write the frequency of the wave. (1)
 - 2.4.3 Calculate the speed of the wave. (3)
- 2.5 If the waves were sent towards each other and allowed to collide,
 - 2.5.1 Write down the amplitude of the wave. (2)
 - 2.5.2 Describe the wave pattern. (2)

[10]

QUESTION 3

- 3.1 The diagram below shows different points on a longitudinal wave.



- 3.1.1 Point to which A, B and C

(2)

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A Gutmann



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other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants

Optimizing the U S Ground Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council NRC decadal surveys *New Worlds New Horizons for Astronomy and Astrophysics* and *Vision and Voyages for Planetary Sciences in the Decade 2013 2022* as well as other NRC reports This report describes a vision for a U S OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities and near term critical coordination planning and instrumentation needed to usher in the era of LSST and giant telescopes *Future Spacecraft Propulsion Systems and Integration* Paul A. Czysz, Claudio Bruno, Bernd Chudoba, 2017-08-30 The updated and expanded third edition of this book focuses on the multi disciplinary coupling between flight vehicle hardware alternatives and enabling propulsion systems It discusses how to match near term and far term aerospace vehicles to missions and provides a comprehensive overview of the subject directly contributing to the next generation space infrastructure from space tourism to space exploration This holistic treatment defines a mission portfolio addressing near term to long term space transportation needs covering sub orbital orbital and escape flight profiles In this context a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access A best practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike

Studies in Science Education in the Asia-Pacific Region May Hung Cheng, Alister Jones, Cathy Bunting, 2017-09-13 Consistent with international trends there is an active pursuit of more engaging science education in the Asia Pacific region The aim of this book is to bring together some examples of research being undertaken at a range of levels from studies of curriculum and assessment tools to classroom case studies and investigations into models of teacher professional learning and development While neither a comprehensive nor definitive representation of the work that is being carried out in the region the contributions from China Hong Kong Taiwan Korea Japan Singapore Australia and New Zealand give a taste of some of the issues being explored and the hopes that researchers have of positively influencing the types of science education experienced by school students The purpose of this book is therefore to share contextual information related to science education in the Asia Pacific region as well as offering insights for conducting studies in this region and outlining possible questions for further investigation In addition we anticipate that the specific resources and strategies introduced in this book will provide a useful reference for curriculum developers and science educators when they design school science curricula and science both pre service and in service teacher education programmes The first section of the book examines features of science learners and learning and includes studies investigating the processes associated with

science conceptual learning scientific inquiry model construction and students attitudes towards science The second section focuses on teachers and teaching It discusses some more innovative teaching approaches adopted in the region including the use of group work inquiry based instruction developing scientific literacy and the use of questions and analogies The third section reports on initiatives related to assessments and curriculum reform including initiatives associated with school based assessment formative assessment strategies and teacher support accompanying curriculum reform The Open Access version of this book available at <http://www.taylorfrancis.com/books/e/9781315717678> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

The Well-Trained Mind Susan Wise Bauer, Jessie Wise, 2016-08-09 Is your child getting lost in the system becoming bored losing his or her natural eagerness to learn If so it may be time to take charge of your child's education by doing it yourself The Well Trained Mind will instruct you step by step on how to give your child an academically rigorous comprehensive education from preschool through high school one that will train him or her to read to think to understand to be well rounded and curious about learning Veteran home educators Susan Wise Bauer and Jessie Wise outline the classical pattern of education called the trivium which organizes learning around the maturing capacity of the child's mind and comprises three stages the elementary school grammar stage when the building blocks of information are absorbed through memorization and rules the middle school logic stage in which the student begins to think more analytically and the high school rhetoric stage where the student learns to write and speak with force and originality Using this theory as your model you'll be able to instruct your child whether full time or as a supplement to classroom education in all levels of reading writing history geography mathematics science foreign languages rhetoric logic art and music regardless of your own aptitude in those subjects Thousands of parents and teachers have already used the detailed book lists and methods described in The Well Trained Mind to create a truly superior education for the children in their care This extensively revised fourth edition contains completely updated curricula and book lists links to an entirely new set of online resources new material on teaching children with learning challenges cutting edge math and sciences recommendations answers to common questions about home education and advice on practical matters such as standardized testing working with your local school board designing a high school program preparing transcripts and applying to colleges You do have control over what and how your child learns The Well Trained Mind will give you the tools you'll need to teach your child with confidence and success

Brain-Computer Interfaces and the Philosophy of Mind and Action Sebastian Drosselmeier, 2025-06-30 How can brain computer interfaces enhance our understanding of human agency and mentality By exploring how these interfaces enable people to perform intentional actions seemingly merely with their thoughts Drosselmeier delves into three core metaphysical issues in the philosophy of mind agency mental causation and the mind brain relationship He argues that brain computer interfaces provide a unique perspective on these issues demonstrating both the irreducible higher level nature of human thought and action and their continuity with lower level scientific phenomena

This dual perspective helps bridge the apparent gap between our commonsense psychological understanding of mind and action and a scientific worldview The relevance of this work extends beyond theoretical philosophy providing practical implications for the development and ethical considerations of emerging neurotechnologies This publication is essential for scholars and researchers in philosophy cognitive science and neuroscience offering a comprehensive framework that integrates philosophical inquiry with cutting edge scientific advancements **The Next Production Revolution**

Implications for Governments and Business OECD,2017-05-10 This publication examines the opportunities and challenges for business and government associated with technologies bringing about the next production revolution These include a variety of digital technologies e g the Internet of Things and advanced robotics industrial **On Earth as It Is in Heaven** David Vincent Meconi S.J.,2016 With the recent publication of Pope Francis s encyclical Laudato Si many people of faith have found themselves challenged to seek new ways of responding to serious ecological questions essential to the flourishing of all creatures On Earth as It Is in Heaven brings together fifteen top scholars to consider pressing contemporary environmental concerns through the lens of Catholic theology Drawing from ancient Christian sources the contributors delve into such diverse topics as equitable food distribution responsible procreation land stewardship evolutionary theodicy and poverty and providence A concluding essay addresses the liturgy as the space in which all creation is consecrated before the cross of Christ Allowing the earliest Church Fathers and voices from the Christian tradition to speak to our unique circumstances today this engaging volume shows that ancient creedal Christianity contains important insights into caring for God s creation *Setting the Standard for Project Based Learning* John Larmer,John Mergendoller,Suzie Boss,2015-05-26 Project based learning PBL is gaining renewed attention with the current focus on college and career readiness and the performance based emphases of Common Core State Standards but only high quality versions can deliver the beneficial outcomes that schools want for their students It s not enough to just do projects Today s projects need to be rigorous engaging and in depth and they need to have student voice and choice built in Such projects require careful planning and pedagogical skill The authors leaders at the respected Buck Institute for Education take readers through the step by step process of how to create implement and assess PBL using a classroom tested framework Also included are chapters for school leaders on implementing PBL systemwide and the use of PBL in informal settings Examples from all grade levels and content areas provide evidence of the powerful effects that PBL can have including increased student motivation and preparation for college careers and citizenship better results on high stakes tests a more satisfying teaching experience and new ways for educators to communicate with parents communities and the wider world By successfully implementing PBL teachers can not only help students meet standards but also greatly improve their instruction and make school a more meaningful place for learning Both practical and inspirational this book is an essential guide to creating classrooms and schools where students and teachers excel **THE CHEMICAL NEWS AND JOURNAL OF PHYSICAL SCIENCE. WILLIAM**

CROOKES, F. R. S., &c.,1880 *Women's Under-Representation in the Engineering and Computing Professions: Fresh Perspectives on a Complex Problem* Kathleen Buse,Catherine Hill,Romila Singh,2018-06-21 Understanding the many complexities that define gender inequality has been described by researchers as a grand challenge Novel insights innovation a broader community to conduct research and to ascertain effective interventions are essential in the challenge to create organizations that are gender equal As such this Research Topic in Frontiers in Psychology addresses the under representation of women in engineering and computing as a complex but solvable problem This Research Topic seeks to inform the global community about advances in understanding the under representation of women in engineering and computing with a focus on what enables change Further this Topic will promote fresh perspectives innovative methodologies and mixed method approaches important to accelerating the pace of change **Global Studies Research** Pamela A. Zeiser,2019-06-27 Global Studies Research is a research methods textbook designed for interdisciplinary International Studies majors and their faculty The textbook introduces interdisciplinarity provides basic building blocks of relevant disciplinary knowledge explains a process for integrating knowledge from multiple disciplines and models this interdisciplinary International Studies Research Process in its presentation of the case studies **Primary Physical Science Education** Hans U. Fuchs,Federico Corni,2023-10-10 This open access book is the first of two volumes that integrates a study of direct encounters with Primary Forces of Nature Wind Light Rain Heat and Cold Water etc with imaginative narrative forms of communication The approach developed in this book shows how the growth of cognitive tools first of mythic and then of romantic forms of understanding lets children make sense of experiencing physical phenomena An in depth description of Fluids Gravity and Heat as Basic Forces shows how primary sense making can evolve into understanding of aspects of physical science allowing for a nature based pedagogy and application to environmental systems The final chapter introduces visual metaphors and theatrical storytelling that are particularly useful for understanding the role of energy in physical processes It explores how a mythic approach to nature can inform early science pedagogy This book is of interest to kindergarten and primary school teachers as well as early education researchers and instructors

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