

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 metal.
 - B. An attraction to all matter.
 - C. An attraction to electrons.
 - D. A repulsion of electrons.
- 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**. (1)
- 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 wave P. (2)
 - 2.5.2 Describe the wave shape. (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)

Physical Science Question Paper For Grade 10 19 March 2014

Ben Akpan, Teresa J. Kennedy



Physical Science Question Paper For Grade 10 19 March 2014:

The Arctic in the Anthropocene National Research Council, Division on Earth and Life Studies, Polar Research Board, Committee on Emerging Research Questions in the Arctic, 2014-07-31 Once ice bound difficult to access and largely ignored by the rest of the world the Arctic is now front and center in the midst of many important questions facing the world today Our daily weather what we eat and coastal flooding are all interconnected with the future of the Arctic The year 2012 was an astounding year for Arctic change The summer sea ice volume smashed previous records losing approximately 75 percent of its value since 1980 and half of its areal coverage Multiple records were also broken when 97 percent of Greenland's surface experienced melt conditions in 2012 the largest melt extent in the satellite era Receding ice caps in Arctic Canada are now exposing land surfaces that have been continuously ice covered for more than 40 000 years What happens in the Arctic has far reaching implications around the world Loss of snow and ice exacerbates climate change and is the largest contributor to expected global sea level rise during the next century Ten percent of the world's fish catches comes from Arctic and sub Arctic waters The U S Geological Survey estimated that up to 13 percent of the world's remaining oil reserves are in the Arctic The geologic history of the Arctic may hold vital clues about massive volcanic eruptions and the consequent release of massive amount of coal fly ash that is thought to have caused mass extinctions in the distant past How will these changes affect the rest of Earth What research should we invest in to best understand this previously hidden land manage impacts of change on Arctic communities and cooperate with researchers from other nations The Arctic in the Anthropocene reviews research questions previously identified by Arctic researchers and then highlights the new questions that have emerged in the wake of and expectation of further rapid Arctic change as well as new capabilities to address them This report is meant to guide future directions in U S Arctic research so that research is targeted on critical scientific and societal questions and conducted as effectively as possible The Arctic in the Anthropocene identifies both a disciplinary and a cross cutting research strategy for the next 10 to 20 years and evaluates infrastructure needs and collaboration opportunities The climate biology and society in the Arctic are changing in rapid complex and interactive ways Understanding the Arctic system has never been more critical thus Arctic research has never been more important This report will be a resource for institutions funders policy makers and students Written in an engaging style The Arctic in the Anthropocene paints a picture of one of the last unknown places on this planet and communicates the excitement and importance of the discoveries and challenges that lie ahead

Science Education in Theory and Practice Ben Akpan, Teresa J. Kennedy, 2025-04-26 This book addresses the critical role of science education in the context of global growth and development emphasizing its significance in the advancement of societal progress The book identifies and explores the lack of comprehensive resources compiling diverse learning theories and their practical applications in science teaching Tailored for a global audience it bridges the knowledge gap with a narrative genre offering a cohesive exploration of fundamental theories and applications

With contributors from 14 countries this edition goes beyond its predecessor delivering updated insights across chapters in research pedagogy and educational theory Each chapter enriches the reader s experience with exercises and reflections fostering deeper engagement Notably the second edition responds to the evolving educational landscape introducing Chapter 28 on Virtual Technology in the wake of the COVID 19 pandemic This book is an invaluable resource for students educators and researchers interested in science education providing a comprehensive exploration of updated theories and practices

Thermodynamic Analysis and Optimization of Geothermal Power Plants Can Ozgur Colpan,Mehmet Akif Ezan,Onder Kizilkan,2021-02-19 Thermodynamic Analysis and Optimization of Geothermal Power Plants guides researchers and engineers on the analysis and optimization of geothermal power plants through conventional and innovative methods Coverage encompasses the fundamentals thermodynamic analysis and optimization of geothermal power plants Advanced thermodynamic analysis tools such as exergy analysis thermoeconomic analysis and several thermodynamic optimization methods are covered in depth for different configurations of geothermal power plants through case studies Interdisciplinary research with relevant economic and environmental dimensions are addressed in many of the studies Multiobjective optimization studies aimed at better efficiency lower cost and a lower environmental impact are also discussed in this book Addresses the complexities of thermodynamic assessment in almost all operational plant configurations including solar geothermal and multigeneration power plants Includes an exemplary range of case studies from basic to integrated Provides modern optimization methods including exergoeconomic artificial neural networks and multiobjective particle swarm Covers environmental impact considerations and integration with renewable energy systems

If Einstein Ran the Schools Thomas Armstrong Ph.D.,2019-10-11 Many world class thinkers and creators have been concerned about the state of education in the United States Discover their thoughts on how children really learn and what teachers must do to optimally tap children s latent abilities During the last three decades education reformers have pushed standardized testing and policies like No Child Left Behind and Common Core to improve test scores and proficiency in basic skills However during this period that author Thomas Armstrong calls the miseducation of America a number of troubling trends have surfaced including a decrease in creative thinking scores among children in kindergarten through third grade Rather than focus on what s wrong with the education system that has produced these outcomes Armstrong lays out what creative thinkers know about how children should be educated In an extended thought experiment he asks what would happen if we turned the reins of educational policy over not to the politicians and educational bureaucrats but to eminent thinkers and creators like Albert Einstein Pablo Picasso Martin Luther King Jr Rachel Carson Doris Lessing Jane Goodall and other seminal culture builders What might they say about the best way to educate a child *If Einstein Ran the Schools* suggests that the answers to this intriguing question should guide future efforts to reform our nation s schools

[Drawing for Science Education](#) Phyllis Katz,2017-03-23 This book argues for the essential use of drawing as a tool for science teaching and learning The authors are

working in schools universities and continual science learning CSL settings around the world They have written of their experiences using a variety of prompts to encourage people to take pen to paper and draw their thinking sometimes direct observation and in other instances their memories The result is a collection of research and essays that offer theory techniques outcomes and models for the reader Young children have provided evidence of the perceptions that they have accumulated from families and the media before they reach classrooms Secondary students describe their ideas of chemistry and physics Teacher educators use drawings to consider the progress of their undergraduates understanding of science teaching and even their moral ethical responses to teaching about climate change Museum visitors have drawn their understanding of the physics of how exhibit sounds are transmitted A physician explains how the history of drawing has been a critical tool to medical education and doctor patient communications Each chapter contains samples insights and where applicable analysis techniques The chapters in this book should be helpful to researchers and teachers alike across the teaching and learning continuum The sections are divided by the kinds of activities for which drawing has historically been used in science education An instance of observation Audubon Linnaeus A process how plants grow over time what happens when chemicals combine Conceptions of what science is and who does it Images of identity development in science teaching and learning

Creativity and Innovation in Times of Crisis (COVID-19) Roni Reiter-Palmon, Min Tang, Zorana Ivcevic, 2022-04-06 *Australian Education Index*, 1980 *Life Span Motor Development* Kathleen Haywood, Nancy Getchell, 2024-10-15 *Life Span Motor Development* Eighth Edition uses the model of constraints in discussing reasons for changes in movement throughout the life span It encourages students to examine how the interaction of the individual environment and task bring about changes in a person's movements

Teaching Mathematics Creatively Linda Pound, Trisha Lee, 2021-09-30 This revised and updated third edition offers a range of strategies activities and ideas to bring mathematics to life in the primary classroom Taking an innovative and playful approach to maths teaching this book promotes creativity as a key element of practice and offers ideas to help your students develop knowledge understanding and enjoyment of the subject In the creative classroom mathematics becomes a tool to build confidence develop problem solving skills and motivate children The fresh approaches explored in this book include a range of activities such as storytelling music and construction elevating maths learning beyond subject knowledge itself to enable students to see mathematics in a new way Key chapters of this book explore Learning maths outdoors make more noise make more mess or work on a larger scale Everyday maths making sense of the numbers patterns shapes and measures children see around them Music and maths the role of rhythm in learning and music and pattern in maths Stimulating accessible and underpinned by the latest research and theory this is essential reading for trainee and practising teachers who wish to embed creative approaches to maths teaching in their classroom

Dance/movement Therapists in Action Robyn Flaum Cruz, Cynthia Florence Berrol, 2019 *Dance Movement Therapists in Action* fosters awareness of the living body honors diverse ways of working and

leads toward creative expression and integration This edited text written by authors with exemplary credentials spans and illuminates a breadth of investigative inquiry approaches and models to all students clinicians and researchers interested in dance movement therapy DMT research The text highlights two basic research frameworks quantitative objective and qualitative interpretative including their underlying philosophical and theoretical tenets The authors goal has been to create a comprehensible accessible book that is readable and engaging one that contains accepted research protocols in conjunction with practical information written in nontechnical terms Many examples are incorporated throughout the text to clarify and amplify each of the various research options A spectrum of research alternatives are presented that can inform clinical practice inspire clinicians and students and guide further research inquiry These chapters hold a wealth of information and examples that will be of particular use and interest to clinicians and were conceived and written with practitioners in mind for example one featuring the use of movement observation scales for DMT research and clinical practice and one on using research results to inform clinical practice A completely new chapter on embodied descriptive and interpretive methods in DMT research also has been added This volume will afford dance movement therapists the tools to conduct research related to both clinical practice and academic inquiry

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