



GRADE 10 PHYSICAL SCIENCES MARCH TEST

QUESTION 1

Various options are provided as possible answers to the following questions. Choose the correct answer and enter ONLY the LETTER (A-D) next to the QUESTION NUMBER (1-15) on your test paper. Example: 1.6. D

- 1.1 A positively charged object has:
- Excess electrons
 - Excess protons
 - Excess neutrons
 - Excess electrons and protons
- 1.2 Which one of the following types of electromagnetic waves has the LONGEST wavelength?
- Gamma rays
 - Visible light
 - Radio waves
 - X-rays
- 1.3 In which ONE of the following do sound waves travel the FASTEST?
- Vacuum
 - Water
 - Air
 - Steel
- 1.4 The SI unit for charge is the ...
- Coulomb
 - Ampere
 - Volt
 - Joule
- 1.5 The relationship between voltage and work done is:
- Inversely proportional
 - Directly proportional
 - Inversely proportional squared
 - Directly proportional squared

(10)

QUESTION 2

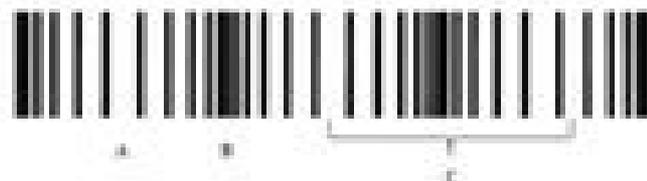
Below is a representation of two waves consisting of continuous pulses. Study carefully and answer the questions that follow.



- 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:
- What is the magnitude of its wavelength in metres? (1)
 - What is the wavelength of the pulse? (1)
 - What is the amplitude? (2)
- 2.5 If the waves were sent towards each other and allowed to collide:
- What would be the resultant wave? (2)
 - What would be the resultant amplitude? (2)
- (14)

QUESTION 3

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



- 3.1.1 What is the name of part 'c'? (2)

(2)

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R Barnett



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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 underrepresentation 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 underrepresentation 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. *Report Series: Committee on Astronomy and Astrophysics*, National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Space Studies Board, Committee on Astronomy and Astrophysics, 2017-06-08. The 2010 astronomy and astrophysics decadal survey *New Worlds, New Horizons in Astronomy and Astrophysics* laid out an exciting portfolio of recommended activities to guide the agencies' research programs over the period 2012-2021. The newly constituted Committee on Astronomy and Astrophysics (CAA) is tasked with monitoring the progress of the survey's recommended priorities. The CAA met in conjunction with Space Science Week 2017 in Washington, D.C. on March 28-30, 2017. This was the first meeting at which the CAA could produce a report, and in advance of that meeting, the CAA received a question from NASA about an upcoming Small Explorer (SMEX) mission call. This report addresses whether there may or may not be sufficient compelling science motivations for a SMEX-sized mission to justify a SMEX Announcement of Opportunity (AO) in 2018 or 2019 as is currently planned.

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 [The Routledge Handbook of Religion, Politics and Ideology](#) Jeffrey Haynes,2021-08-14 This comprehensive handbook examines relationships between religion politics and ideology with a focus on several world religions Christianity Islam Buddhism Hinduism and Judaism in a variety of contexts regions and countries Relationships between religion politics and ideology help mould people s attitudes about the way that political systems both domestically and internationally are organised and operate While conceptually separate religion politics and ideology often become intertwined and as a result their relationships evolve over time This volume brings together a number of expert contributors who explore a wide range of topical and controversial issues including gender nationalism communism fascism populism and Islamism Such topics inform the overall aim of the handbook to provide a comprehensive summary of the relationships between religion politics and ideology including basic issues and new approaches This handbook is a major research resource for students researchers and professionals from various disciplinary backgrounds including religious studies political science international relations and sociology

The Connecticut School Journal ,1874 **Physical Science Higher Level Thinking Questions** Miguel Kagan,Christa Chapman,1999 **Physical Science** ,1981 **Physical Science** ,1986 *An Approach to Physical Science* Physical Science for Non-Science Students,1969 [An Approach to Physical Science](#) Physical Science for Non-Science Students Project,1966 *Introductory Physical Science and Physical Science II* Introductory Physical Science Group,19?? *Physical Science* South Africa. Department of Education,2010 **Teachers Resource Book for Text and Supplementary Chapters [of] An Approach to Physical Science** Physical Science for Nonscience Students Project,1970 *Study Guide to Physical Science* Leon Horn,Benjamin du Preez Brink,Ronald Colin Jones,1990 **Physical Science** National Learning Corporation,2018 The DSST Physical Science Passbook R prepares candidates for the DSST exam which enables schools to award credit for knowledge acquired outside the normal classroom environment It provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam including but not limited to physics electricity and magnetism Glossyr chemical reactions atomic structure and more

Physical Science for Progress Milton O. Pella,1970 **Scott, Foresman Physical Science** John Bowmar,1990 **Introduction to Physical Science** ,1894 **Physical Science Test Grd 9** 290825 5th Ed,2014-04-11 **An Introduction to Physical Science** Jerry Wilson,Charles Higgins,James Shipman,2013

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