

- Answer ALL the questions in the same handwriting
- Non-programmable calculator may be used
- Appropriate mathematical instruments may be used
- Round off your final numerical answers to a minimum of (2) decimal places
- Give detailed reasons, discussions, if asked where needed
- Write neatly and legibly.

Learner's Name

Learner's Surname

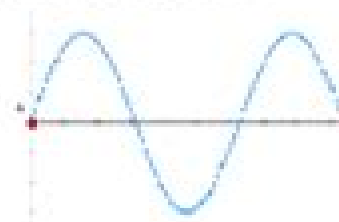
Grade

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- The following are represented by A, B and C:
- Amplitude, wavelength, wave length
 - Crest, trough, wavelength
 - Amplitude, wave length, pulse length
 - Crest, trough, wavelength

[2 Marks]

1.5. The diagram below shows two points A and B on a wave.



Page 2 of 5

Physical Sciences – Paper 1 (Physical)

How many wavelengths separate point A and B?

- A) 1,25 B) 1 C) 1,5 D) 3

[2 Marks]

1.6. Devices are sometimes placed under the hulls of a boat's hulls. This equipment sends the following wave...

- A) X-ray B) Infrared light C) Ultrasound D) Ultra violet light

[2 Marks]

1.7. The following are an example of electromagnetic waves:

- Microwaves, visible light, X-rays
- X-rays, visible light, microwaves
- Microwaves, X-rays, visible light

Physical Sciences – Paper 1 (Physical)

2.2. Identify TWO points in the graph at which the particles would be moving in the same direction

[2 Marks]

2.3. Which point has the maximum displacement?

[1 Mark]

Calculate

2.4. The frequency of the wave produced

[2 Marks]

2.5. The wavelength of the wave produced

[1 Mark]

Physical Science Paper November 2013 Grade 1

Hui Jin,Duanli Yan,Joseph Krajcik



Physical Science Paper November 2013 Grade 1:

21st Century Homestead: Sustainable Agriculture I Marlon Henkel, 2015-02-22 21st Century Homestead Sustainable Agriculture I contains the first part of everything you need to stay up to date on sustainable agriculture **Rocket Propulsion Elements** George P. Sutton, Oscar Biblarz, 2016-11-30 ROCKET PROPULSION ELEMENTS THE DEFINITIVE INTRODUCTION TO ROCKET PROPULSION THEORY AND APPLICATIONS The recent upsurge in global government and private spending and in space flight events has resulted in many novel applications of rocket propulsion technology Rocket Propulsion Elements remains the definitive guide to the field providing a comprehensive introduction to essential concepts and applications Led by industry veteran George P Sutton and by Professor Oscar Biblarz this book provides interdisciplinary coverage including thermodynamics aerodynamics flight performance propellant chemistry and more This thoroughly revised ninth edition includes discussion and analysis of recent advances in the field representing an authoritative reference for students and working engineers alike In any engineering field theory is only as useful as it is practical this book emphasizes relevant real world applications of fundamental concepts to link thinking and doing This book will help readers Understand the physics of flight and the chemistry of propulsion Analyze liquid solid gas and hybrid propellants and the engines they fuel Consider high temperature combustion stability and the principles of electric and chemical propulsion Dissect the workings of systems in common use around the world today Delve into the latest advances in materials systems propellants and more Broad in scope rich in detail and clear in explanation this seminal work provides an unparalleled foundation in aerospace engineering topics Learning through the lens of modern applications untangles complex topics and helps students fully grasp the intricacies on a more intuitive level Rocket Propulsion Elements Ninth Edition merges information and utility building a solid foundation for innovation **Representations of Nature of Science in School Science Textbooks** Christine McDonald, Fouad Abd-El-Khalick, 2017-04-21 Bringing together international research on nature of science NOS representations in science textbooks the unique analyses presented in this volume provides a global perspective on NOS from elementary to college level and discusses the practical implications in various regions across the globe Contributing authors highlight the similarities and differences in NOS representations and provide recommendations for future science textbooks This comprehensive analysis is a definitive reference work for the field of science education **Einstein Relatively Simple: Our Universe Revealed In Everyday Language** Ira Mark Egdall, 2014-01-06 Outstanding Academic Title for 2014 by CHOICE Einstein Relatively Simple brings together for the first time an exceptionally clear explanation of both special and general relativity It is for people who always wanted to understand Einstein's ideas but never thought they could Told with humor enthusiasm and rare clarity this entertaining book reveals how a former high school drop out revolutionized our understanding of space and time From $E=mc^2$ and everyday time travel to black holes and the big bang Einstein Relatively Simple takes us all regardless of our scientific backgrounds on a mind boggling journey through the depths of Einstein's

universe Along the way we track Einstein through the perils and triumphs of his life follow his thinking his logic and his insights and chronicle the audacity imagination and sheer genius of the man recognized as the greatest scientist of the modern era In Part I on special relativity we learn how time slows and space shrinks with motion and how mass and energy are equivalent Part II on general relativity reveals a cosmos where black holes trap light and stop time where wormholes form gravitational time machines where space itself is continually expanding and where some 13.7 billion years ago our universe was born in the ultimate cosmic event the Big Bang

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The Extinction of Experience Christine Rosen, 2024-09-10 An Esquire Best Book of 2024 A

reflective original invitation to recover and cultivate the human experiences that have atrophied in our virtual world We embraced the mediated life from Facetime and Venmo to meme culture and the Metaverse because these technologies offer novelty and convenience But they also transform our sense of self and warp the boundaries between virtual and real What are the costs Who are we in a disembodied world In *The Extinction of Experience* Christine Rosen investigates the cultural and emotional shifts that accompany our embrace of technology In warm philosophical prose Rosen reveals key human experiences at risk of going extinct including face to face communication sense of place authentic emotion and even boredom Considering cultural trends like TikTok challenges and mukbang and politically unsettling phenomena like sociometric trackers and online conspiracy culture Rosen exposes an unprecedented shift in the human condition one that habituates us to alienation and control To recover our humanity and come back to the real world we must reclaim serendipity community patience and risk

Sports Engineering and Computer Science Qi Luo, 2015-05-18 Sports Engineering and Computer Science contains papers presented at the 2014 International Conference on Sport Science and Computer Science SSCS 2014 held September 16 17 2014 in Singapore and at the 2014 International Conference on Biomechanics and Sports Engineering BSE 2014 held October 24 25 2014 in Riga Latvia The contributions have

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Catalano,Michael A. Marino,2020-05-06 Measurements in Evaluating Science Education is a comprehensive intuitive guide to many of the key instruments created to assess science education environments learning and instruction Nearly 70 different surveys tests scales and other metrics are organized according to the qualities the measures attempt to gauge such as attitudes toward science beliefs and misconceptions self efficacy and content knowledge Summaries of each instrument usage information developmental history and validation and reported psychometric properties make this an essential reference for anyone interested in understanding science education assessment *Complete Book of Colleges, 2005 Edition*

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