

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. A heavy object has more mass.
B. A heavy object has more weight.
C. A heavy object has more inertia.
D. The heavy object has a smaller acceleration.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A heavy object is accelerating.
B. When the net force acting on the object is zero.
C. A heavy object is moving with a constant velocity.
D. A heavy object is moving with a constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not experiencing any forces.
B. An object is moving at a constant velocity.
C. An object is not experiencing any forces.
D. An object is moving with a constant velocity.
- 1.4 The inertia of an object...
- A. is a measure of its mass.
B. is a measure of its weight.
C. is a measure of its volume.
D. is a measure of its density.
- 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 force 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.
2.2.2 Resultant of the components of P and Q vertically.
2.2.3 Resultant of the horizontal components.
2.2.4 Resultant of the vertical components.
2.2.5 Resultant of the forces acting on the bucket.

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

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Guillaume Favre

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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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 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

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

Smart Energy Research. At the Crossroads of Engineering, Economics, and Computer Science Christian Derksen,Christoph Weber,2017-08-29 This volume consists of revised selected papers presented at the 3rd and 4th International Conference on Smart Energy Research SmartER Europe 2016 and 2017 held in Essen Germany in February 2016 and 2017 The 13 full papers included in this volume were carefully reviewed and selected from 25 submissions The papers discuss recent advances and experiences in building and using new IT based solutions for Smart Grids and Smart Markets combining the knowledge of different disciplines such as engineering business management and economics as well as computer science They reflect the versatility and the complexity of the transformation process in the energy sector and also show the great need for research that is required to achieve the high targets for a digitized and sustainable energy landscape

Scientific American ,1914 Monthly magazine devoted to topics of general scientific interest

Australian Education Index ,1980

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 abroad 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 holist 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 Connecticut School Journal ,1874 **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 **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

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Table of Contents Grade Physical Sciences March 2014 Question Paper

1. Understanding the eBook Grade Physical Sciences March 2014 Question Paper
 - The Rise of Digital Reading Grade Physical Sciences March 2014 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Physical Sciences March 2014 Question Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade Physical Sciences March 2014 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Physical Sciences March 2014 Question Paper

- Personalized Recommendations
 - Grade Physical Sciences March 2014 Question Paper User Reviews and Ratings
 - Grade Physical Sciences March 2014 Question Paper and Bestseller Lists
5. Accessing Grade Physical Sciences March 2014 Question Paper Free and Paid eBooks
- Grade Physical Sciences March 2014 Question Paper Public Domain eBooks
 - Grade Physical Sciences March 2014 Question Paper eBook Subscription Services
 - Grade Physical Sciences March 2014 Question Paper Budget-Friendly Options
6. Navigating Grade Physical Sciences March 2014 Question Paper eBook Formats
- ePub, PDF, MOBI, and More
 - Grade Physical Sciences March 2014 Question Paper Compatibility with Devices
 - Grade Physical Sciences March 2014 Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Grade Physical Sciences March 2014 Question Paper
 - Highlighting and Note-Taking Grade Physical Sciences March 2014 Question Paper
 - Interactive Elements Grade Physical Sciences March 2014 Question Paper
8. Staying Engaged with Grade Physical Sciences March 2014 Question Paper
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade Physical Sciences March 2014 Question Paper
9. Balancing eBooks and Physical Books Grade Physical Sciences March 2014 Question Paper
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade Physical Sciences March 2014 Question Paper
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade Physical Sciences March 2014 Question Paper
- Setting Reading Goals Grade Physical Sciences March 2014 Question Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade Physical Sciences March 2014 Question Paper

- Fact-Checking eBook Content of Grade Physical Sciences March 2014 Question Paper
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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