

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. Mass of X is greater than mass of Y.
B. Acceleration of X is greater than acceleration of Y.
C. Mass of Y is greater than mass of X.
D. The slope of X is greater than the slope of Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A car moving with constant acceleration.
B. A ball falling from the sky to the ground with constant acceleration.
C. A car moving with constant velocity on a horizontal road.
D. A car moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving upwards with constant velocity.
B. An object moving upwards with constant acceleration.
C. An object moving upwards with constant velocity.
D. An object moving upwards with constant acceleration.
- 1.4 The inertia of an object...
- A. is greater for a heavier object.
B. is greater for an object moving faster.
C. is the resistance to any change in its state of motion.
D. is the force that causes an object to move.
- 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 Horizontal components of P and Q respectively. (4)
2.2.2 Vertical components of P and Q respectively. (4)
2.2.3 Resultant of the horizontal components. (5)
2.2.4 Resultant of the vertical components. (5)
2.2.5 Resultant of the forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

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**William Crookes, James H.
Gardiner, Gerald Druce, H. W. Blood-
Ryan**

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Chemical News and Journal of Physical Science ,1892 **Research in Education** ,1974 **Resources in Education** ,1998 *The Education Gazette of the Province of the Cape of Good Hope* Cape of Good Hope (South Africa). Education Department,1920 **Monthly Catalog of United States Government Publications** ,1959 **Technical Book Review Index** ,1918 **Chemical News and Journal of Physical Science** William Crookes,James H. Gardiner,Gerald Druce,H. W. Blood-Ryan,1905 **Proceedings of the Cambridge Philosophical Society** Cambridge Philosophical Society,1929 **The Chemical News : and Journal of Physical Science** ,1905 **The Electrical Review** ,1910 Resources in Education ,1997 **INIS Atomindex** ,1986 **Scientific American** ,1889 Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1948 Includes Part 1A Books and Part 1B Pamphlets Serials and Contributions to Periodicals Current Index to Journals in Education ,2000 *Mechanical Engineering* ,1919

The Education Gazette of the Province of the Cape of Good Hope ,1969 **Who's who Among Students in American Universities and Colleges** Henry Pettus Randall,1976 *Journal of the Royal Society of Arts* Royal Society of Arts (Great Britain),1880 Accounts and Papers of the House of Commons Great Britain. Parliament. House of Commons,1868

Physical Science Common Paper Grade 11 March Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Physical Science Common Paper Grade 11 March**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Physical Science Common Paper Grade 11 March

1. Understanding the eBook Physical Science Common Paper Grade 11 March
 - The Rise of Digital Reading Physical Science Common Paper Grade 11 March
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Common Paper Grade 11 March
 - 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 eBook Physical Science Common Paper Grade 11 March
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Common Paper Grade 11 March
 - Personalized Recommendations
 - Physical Science Common Paper Grade 11 March User Reviews and Ratings
 - Physical Science Common Paper Grade 11 March and Bestseller Lists

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