

## 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 a constant speed.  
B. A ball falling from the sky to the ground with a constant acceleration.  
C. A car moving with a constant speed in a straight line.  
D. A car 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 other than the gravitational force.  
D. An object is moving with a constant speed.
- 1.4 The inertia of an object...
- A. is a measure of its mass.  
B. is a measure of its speed.  
C. is a measure of its acceleration.  
D. is a measure of its momentum.
- 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.  $r$   
B.  $2r$   
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 free-body diagram. (2)
- 2.2 The tension in rope P is 100N at an angle of  $30^\circ$  to the vertical and the tension in Q is 51,52N at  $45^\circ$  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]

# Physical Science Grade11 March Memo

**Rachel Sandford**



## **Physical Science Grade11 March Memo:**

## Decoding **Physical Science Grade11 March Memo**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Science Grade11 March Memo**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

<https://crm.avenza.com/data/Resources/index.jsp/Physical%20Science%20Paper%201%20Memorandum%202014%20Grade%2012%20Eastern%20Cape.pdf>

### **Table of Contents Physical Science Grade11 March Memo**

1. Understanding the eBook Physical Science Grade11 March Memo
  - The Rise of Digital Reading Physical Science Grade11 March Memo
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade11 March Memo
  - 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 Physical Science Grade11 March Memo
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade11 March Memo
  - Personalized Recommendations
  - Physical Science Grade11 March Memo User Reviews and Ratings

- Physical Science Grade11 March Memo and Bestseller Lists
- 5. Accessing Physical Science Grade11 March Memo Free and Paid eBooks
  - Physical Science Grade11 March Memo Public Domain eBooks
  - Physical Science Grade11 March Memo eBook Subscription Services
  - Physical Science Grade11 March Memo Budget-Friendly Options
- 6. Navigating Physical Science Grade11 March Memo eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Grade11 March Memo Compatibility with Devices
  - Physical Science Grade11 March Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Grade11 March Memo
  - Highlighting and Note-Taking Physical Science Grade11 March Memo
  - Interactive Elements Physical Science Grade11 March Memo
- 8. Staying Engaged with Physical Science Grade11 March Memo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Grade11 March Memo
- 9. Balancing eBooks and Physical Books Physical Science Grade11 March Memo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Grade11 March Memo
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Grade11 March Memo
  - Setting Reading Goals Physical Science Grade11 March Memo
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Grade11 March Memo
  - Fact-Checking eBook Content of Physical Science Grade11 March Memo
  - 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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