

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 the line of X is greater than the slope of the line of Y.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A person moving at a constant speed.
B. When the net force acting on the object is constant and not equal to zero.
C. A person accelerating from rest to a higher speed in a straight line.
D. A person moving at a constant speed in a straight line.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not being pulled or pushed by any force.
B. An object is moving at a constant velocity in a straight line.
C. An object is not being pulled or pushed by any force.
D. An object is not being pulled or pushed by any force.
- 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 velocity.
- 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. $1/2r$
D. $1/4r$
- 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]

Physical Science March2013 Paper Grade 11

Memorandum

**Stephen N. Elliott, Ryan J. Kettler, Peter
A. Beddow, Alexander Kurz**



Physical Science March 2013 Paper Grade 11 Memorandum:

This book delves into Physical Science March2013 Paper Grade 11 Memorandum. Physical Science March2013 Paper Grade 11 Memorandum is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science March2013 Paper Grade 11 Memorandum, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 4: Physical Science March2013 Paper Grade 11 Memorandum in Specific Contexts
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Table of Contents Physical Science March2013 Paper Grade 11 Memorandum

1. Understanding the eBook Physical Science March2013 Paper Grade 11 Memorandum
 - The Rise of Digital Reading Physical Science March2013 Paper Grade 11 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science March2013 Paper Grade 11 Memorandum
 - 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 March2013 Paper Grade 11 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science March2013 Paper Grade 11 Memorandum
 - Personalized Recommendations
 - Physical Science March2013 Paper Grade 11 Memorandum User Reviews and Ratings
 - Physical Science March2013 Paper Grade 11 Memorandum and Bestseller Lists
5. Accessing Physical Science March2013 Paper Grade 11 Memorandum Free and Paid eBooks
 - Physical Science March2013 Paper Grade 11 Memorandum Public Domain eBooks
 - Physical Science March2013 Paper Grade 11 Memorandum eBook Subscription Services
 - Physical Science March2013 Paper Grade 11 Memorandum Budget-Friendly Options
6. Navigating Physical Science March2013 Paper Grade 11 Memorandum eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science March2013 Paper Grade 11 Memorandum Compatibility with Devices
 - Physical Science March2013 Paper Grade 11 Memorandum Enhanced eBook Features

7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science March2013 Paper Grade 11 Memorandum
 - Highlighting and Note-Taking Physical Science March2013 Paper Grade 11 Memorandum
 - Interactive Elements Physical Science March2013 Paper Grade 11 Memorandum
8. Staying Engaged with Physical Science March2013 Paper Grade 11 Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science March2013 Paper Grade 11 Memorandum
9. Balancing eBooks and Physical Books Physical Science March2013 Paper Grade 11 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science March2013 Paper Grade 11 Memorandum
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science March2013 Paper Grade 11 Memorandum
 - Setting Reading Goals Physical Science March2013 Paper Grade 11 Memorandum
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science March2013 Paper Grade 11 Memorandum
 - Fact-Checking eBook Content of Physical Science March2013 Paper Grade 11 Memorandum
 - 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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