

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. Mass of X is less than mass of Y.
C. Mass of X is equal to mass of Y.
D. The mass of X cannot be determined from the graph.
- 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 car moving with constant velocity in a straight line.
C. A car moving with constant velocity in a circular path.
D. A car moving with constant acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object moving upwards with a constant velocity.
B. An object moving upwards with a constant acceleration.
C. An object moving upwards with a constant velocity in a straight line.
D. An object moving upwards with a constant acceleration.
- 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. r
B. $2r$
C. $3r$
D. $4r$
- 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 free-body 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 two forces. (4)
2.2.2 Resultant of the two forces. (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 two forces acting on the bucket. (5)
- 2.3 Calculate the mass of the bucket. (3)

[14]

Westerford Past Grade 11 Physical Siences Papers

Marion Mann,Renee Smith



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Table of Contents Westerford Past Grade 11 Physical Siences Papers

1. Understanding the eBook Westerford Past Grade 11 Physical Siences Papers
 - The Rise of Digital Reading Westerford Past Grade 11 Physical Siences Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Westerford Past Grade 11 Physical Siences Papers
 - 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 Westerford Past Grade 11 Physical Siences Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Westerford Past Grade 11 Physical Siences Papers
 - Personalized Recommendations
 - Westerford Past Grade 11 Physical Siences Papers User Reviews and Ratings
 - Westerford Past Grade 11 Physical Siences Papers and Bestseller Lists
5. Accessing Westerford Past Grade 11 Physical Siences Papers Free and Paid eBooks
 - Westerford Past Grade 11 Physical Siences Papers Public Domain eBooks
 - Westerford Past Grade 11 Physical Siences Papers eBook Subscription Services
 - Westerford Past Grade 11 Physical Siences Papers Budget-Friendly Options

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