

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 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 a constant velocity.
B. An object moving upwards with a constant acceleration.
C. An object moving upwards with a constant velocity.
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 Horizontal components of P and Q respectively.
2.2.2 Vertical components of P and Q respectively.
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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J Elliott



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Table of Contents Physical Science Common Test 14th March 2014 Grade 11 Question Paper

1. Understanding the eBook Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - The Rise of Digital Reading Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Common Test 14th March 2014 Grade 11 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 Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - Personalized Recommendations

- Physical Science Common Test 14th March 2014 Grade 11 Question Paper User Reviews and Ratings
- Physical Science Common Test 14th March 2014 Grade 11 Question Paper and Bestseller Lists
- 5. Accessing Physical Science Common Test 14th March 2014 Grade 11 Question Paper Free and Paid eBooks
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 - Physical Science Common Test 14th March 2014 Grade 11 Question Paper eBook Subscription Services
 - Physical Science Common Test 14th March 2014 Grade 11 Question Paper Budget-Friendly Options
- 6. Navigating Physical Science Common Test 14th March 2014 Grade 11 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Common Test 14th March 2014 Grade 11 Question Paper Compatibility with Devices
 - Physical Science Common Test 14th March 2014 Grade 11 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - Highlighting and Note-Taking Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - Interactive Elements Physical Science Common Test 14th March 2014 Grade 11 Question Paper
- 8. Staying Engaged with Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Common Test 14th March 2014 Grade 11 Question Paper
- 9. Balancing eBooks and Physical Books Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Common Test 14th March 2014 Grade 11 Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - Setting Reading Goals Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Common Test 14th March 2014 Grade 11 Question Paper
 - Fact-Checking eBook Content of Physical Science Common Test 14th March 2014 Grade 11 Question Paper

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
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