

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. A heavy object has more mass.
B. A heavy object has more weight.
C. A heavy object has more inertia.
D. The heavy object has a smaller acceleration.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N?
- A. A heavy object is falling freely.
B. A heavy object is falling with a constant downward acceleration.
C. A heavy object is falling with a constant downward velocity.
D. A heavy object is falling with a constant downward acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is falling freely with a constant downward acceleration.
B. An object is falling with a constant downward acceleration.
C. An object is falling with a constant downward velocity.
D. An object is falling with a constant downward 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 friction force is greater than 100N.
B. The friction force is less than 100N.
C. The friction force is equal to 100N.
D. None of the above.

[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 Find the resultant force. (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 components of P and Q horizontally. (4)
2.2.2 Resultant components of P and Q vertically. (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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Table of Contents Physical Science Exam Paper March 2014 Caps

1. Understanding the eBook Physical Science Exam Paper March 2014 Caps
 - The Rise of Digital Reading Physical Science Exam Paper March 2014 Caps
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Exam Paper March 2014 Caps
 - 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 Exam Paper March 2014 Caps
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Exam Paper March 2014 Caps

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

- Fact-Checking eBook Content of Physical Science Exam Paper March 2014 Caps
- 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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