

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 light object has more mass.
C. A heavy object has more mass.
D. The mass of an object is directly proportional to its 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 at rest.
B. A light object is at rest.
C. A heavy object is moving with a constant velocity.
D. A light object is moving with a constant velocity.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not experiencing any forces.
B. An object is not experiencing any forces.
C. An object is not experiencing any forces.
D. An object is not experiencing any forces.
- 1.4 The inertia of an object...
- A. is a measure of its mass.
B. is a measure of its mass.
C. is a measure of its mass.
D. is a measure of its mass.
- 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 heavy.
D. The box is too light.

[14]

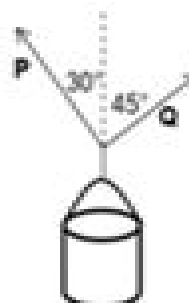
QUESTION 2

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 ropes.
2.2.2 Resultant of the two ropes.
2.2.3 Resultant of the horizontal components.
2.2.4 Resultant of the vertical components.
2.2.5 Resultant of the two ropes.

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

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Table of Contents **Grd11 Physical Science Exemplar**

1. Understanding the eBook **Grd11 Physical Science Exemplar**
 - The Rise of Digital Reading **Grd11 Physical Science Exemplar**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Grd11 Physical Science Exemplar**
 - 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 **Grd11 Physical Science Exemplar**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Grd11 Physical Science Exemplar**
 - Personalized Recommendations
 - **Grd11 Physical Science Exemplar** User Reviews and Ratings
 - **Grd11 Physical Science Exemplar** and Bestseller Lists

5. Accessing Grd11 Physical Science Exemplar Free and Paid eBooks
 - Grd11 Physical Science Exemplar Public Domain eBooks
 - Grd11 Physical Science Exemplar eBook Subscription Services
 - Grd11 Physical Science Exemplar Budget-Friendly Options
6. Navigating Grd11 Physical Science Exemplar eBook Formats
 - ePub, PDF, MOBI, and More
 - Grd11 Physical Science Exemplar Compatibility with Devices
 - Grd11 Physical Science Exemplar Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grd11 Physical Science Exemplar
 - Highlighting and Note-Taking Grd11 Physical Science Exemplar
 - Interactive Elements Grd11 Physical Science Exemplar
8. Staying Engaged with Grd11 Physical Science Exemplar
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grd11 Physical Science Exemplar
9. Balancing eBooks and Physical Books Grd11 Physical Science Exemplar
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grd11 Physical Science Exemplar
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grd11 Physical Science Exemplar
 - Setting Reading Goals Grd11 Physical Science Exemplar
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grd11 Physical Science Exemplar
 - Fact-Checking eBook Content of Grd11 Physical Science Exemplar
 - 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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