

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 X is greater than mass Y.
B. The acceleration of mass X is greater than the acceleration of mass Y.
C. Mass Y is greater than mass X.
D. The acceleration of mass X is greater than the acceleration of mass Y.
- 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 a constant speed.
B. A car moving with a constant speed in a circular path.
C. A car moving with a constant speed in a straight line.
D. A car moving with a constant speed in a circular path.
- 1.3 Which of the statements below best describes Weightlessness?
- A. An object is not acted upon by any forces.
B. An object is not acted upon by any forces.
C. An object is not acted upon by any forces.
D. An object is not acted upon by any forces.
- 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. 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]

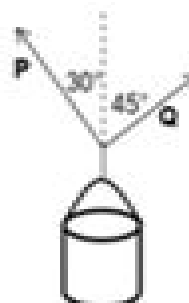
QUESTION 2

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

(4)

(4)

(5)

(5)

(5)

- 2.3 Calculate the mass of the bucket.

(3)

[14]

Grade physical Sciences March 2014 Paper 1

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Gradephysical Sciences March2014 Paper1:

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Table of Contents Gradephysical Sciences March2014 Paper1

1. Understanding the eBook Gradephysical Sciences March2014 Paper1
 - The Rise of Digital Reading Gradephysical Sciences March2014 Paper1
 - Advantages of eBooks Over Traditional Books
2. Identifying Gradephysical Sciences March2014 Paper1
 - 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 Gradephysical Sciences March2014 Paper1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gradephysical Sciences March2014 Paper1
 - Personalized Recommendations

- Gradephysical Sciences March2014 Paper1 User Reviews and Ratings
- Gradephysical Sciences March2014 Paper1 and Bestseller Lists
- 5. Accessing Gradephysical Sciences March2014 Paper1 Free and Paid eBooks
 - Gradephysical Sciences March2014 Paper1 Public Domain eBooks
 - Gradephysical Sciences March2014 Paper1 eBook Subscription Services
 - Gradephysical Sciences March2014 Paper1 Budget-Friendly Options
- 6. Navigating Gradephysical Sciences March2014 Paper1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Gradephysical Sciences March2014 Paper1 Compatibility with Devices
 - Gradephysical Sciences March2014 Paper1 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gradephysical Sciences March2014 Paper1
 - Highlighting and Note-Taking Gradephysical Sciences March2014 Paper1
 - Interactive Elements Gradephysical Sciences March2014 Paper1
- 8. Staying Engaged with Gradephysical Sciences March2014 Paper1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gradephysical Sciences March2014 Paper1
- 9. Balancing eBooks and Physical Books Gradephysical Sciences March2014 Paper1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gradephysical Sciences March2014 Paper1
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gradephysical Sciences March2014 Paper1
 - Setting Reading Goals Gradephysical Sciences March2014 Paper1
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gradephysical Sciences March2014 Paper1
 - Fact-Checking eBook Content of Gradephysical Sciences March2014 Paper1

- 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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web sep 6 2023 in the above quotation collier s metaphor of memory as an abstract painting is an example of another tool she employs in marigolds the story is replete with visual metaphors which the

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web marigolds by eugenia w collier and to kill a mockingbird by harper lee are very similar in their settings and moods for example in marigolds the narrator indicates that all she can remember from her hometown is dust and poverty which shows this was during the great depression

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web marigolds she had so tenderly cared for 84 this quote helps the theme because it shows the compassion that miss lottie had for the marigolds as well as the symbolic hope of the marigolds that made lizabeth so angry because in her innocence she envied the happiness they gave miss lottie a third technique the author uses is situational irony

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see beauty where she didn't before

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web in her short story marigolds eugenia collier tells the story of a young woman named lizabeth growing up in rural maryland during the depression lizabeth is on the verge of becoming an adult but one moment suddenly makes her feel more woman than child and has an impact on the rest of her life

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