

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. Acceleration of X is greater than acceleration of Y.
C. Mass of Y is greater than mass of X.
D. The slope of X is greater than the slope of 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 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 constant velocity.
B. An object moving upwards with constant acceleration.
C. An object moving upwards with constant velocity.
D. An object moving upwards with constant acceleration.
- 1.4 The inertia of an object...
- A. is greater for a heavier object.
B. depends on the speed of the object.
C. is the resistance to any change in its state of motion.
D. depends on the mass of the object.
- 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. $2r$
B. r
C. $1.5r$
D. $0.5r$
- 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 components of P and Q horizontally. (4)
2.2.2 Resultant of the 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]

Physical Science Grade 1march 2015

Arturo Cuomo



Physical Science Grade 1march 2015:

The book delves into Physical Science Grade 1march 2015. Physical Science Grade 1march 2015 is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Grade 1march 2015, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Grade 1march 2015
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 - Chapter 3: Physical Science Grade 1march 2015 in Everyday Life
 - Chapter 4: Physical Science Grade 1march 2015 in Specific Contexts
 - Chapter 5: Conclusion
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 4. In chapter 3, the author will examine the practical applications of Physical Science Grade 1march 2015 in daily life. This chapter will showcase real-world examples of how Physical Science Grade 1march 2015 can be effectively utilized in everyday scenarios.
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 6. In chapter 5, the author will draw a conclusion about Physical Science Grade 1march 2015. This chapter will summarize the key points that have been discussed throughout the book.
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