

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 the line of X is greater than the slope of the line 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 a constant speed.
B. When the car starts from rest and starts to move with a constant acceleration.
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 experiencing any forces.
B. An object is moving at a constant velocity in a straight line.
C. An object is not experiencing any forces other than the gravitational force.
D. An object is moving with a constant speed in a straight line.
- 1.4 The inertia of an object ...
- A. is proportional to its mass.
B. is proportional to its speed.
C. is proportional to its acceleration.
D. is proportional to its volume.
- 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?

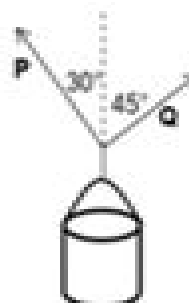
- A. $2r$
B. r
C. $1.5r$
D. $0.5r$
- 1.6 A box is pushed forward with a force of 100N but does not move. A possible reason for this is that:
- A. The box is too heavy.
B. The box is too light.
C. The box is too big.
D. The box is too small.

[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 Horizontal components of P and Q respectively. (4)
2.2.2 Vertical components of P and Q respectively. (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 Exam Paper March 2caps

ML Morrison



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Physical Science National Learning Corporation, 2018. The DSST Physical Science Passbook R prepares candidates for the DSST exam which enables schools to award credit for knowledge acquired outside the normal classroom environment. It provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam, including but not limited to physics, electricity and magnetism, Glossy, chemical reactions, atomic structure, and more. *People of Today*, 2002. Webster's Encyclopedic Unabridged Dictionary of the English Language Random House Value Publishing, 1997. **Physical Science Multiple Choice Q & A Exam Prep** Thompson Bill, PhD, 2024-07-17. Physical Science Multiple Choice Q & A Exam Prep. Equip your student with the knowledge and confidence to excel in their physical science exams with our comprehensive Physical Science Multiple Choice Q & A Exam Prep book. Tailored to meet curriculum standards, this resource offers a wealth of practice questions and in-depth explanations to reinforce understanding of key scientific principles. Inside you'll discover Broad Coverage Topics include physics, chemistry, earth science, and astronomy. Practice Questions: Hundreds of multiple choice questions that reflect the format and difficulty of actual exams. Detailed Solutions: Clear step-by-step explanations for every question to ensure comprehension. Ideal for students preparing for school exams or standardized tests, this book provides essential practice and study aids to help them succeed. Enhance their grasp of physical science concepts and boost their test-taking skills with Physical Science Multiple Choice Q & A Exam Prep. Physical Science Aide National Learning Corporation, 2014. The Physical Science Aide Passbook R prepares you for your test by allowing you to take practice exams in the subjects you need to study. It provides hundreds of questions and answers in the areas that will likely be covered on your upcoming exam. **Modern Physical Science** Alfred

E. Friedl, Frank V. Kitko, Harry E. Tropp, 1991 Introduction to Physical Science Standardized Test Practice, SE
 McGraw-Hill Education, 2004-07-09 Physical Science South Africa. Department of Education, 2010 Physical Science
 , 2007 **Physical Science** , 1981 Passing the Georgia End of Course Test in Physical Science Liz Thompson, 2007
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 the language It was never about brains or ability His students simply didn t have the knowledge of the specific language
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