

#### **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 X has a greater mass.
- B The bodies have equal mass.
- C Y has a greater mass.
- D The mass would not affect the gradient of the graph.
- 1.2 In which of the following cases would the resultant force acting on an object be equal to 0N.
  - A An object moving with constant acceleration.
  - B When the only force acting on the object is gravitational acceleration.
  - C An object that undergoes equal displacements every second.
  - D An object is moving with increasing acceleration.
- 1.3 Which of the statements below best describes Weightlessness?
  - A An object moving at constant velocity upwards from the ground.
  - B An object moving at constant velocity downwards from the ground.
  - C An object that is accelerated upwards away from the ground by a constant applied force.
  - D An object accelerates downwards towards the Earth with an acceleration of 9.8m.s<sup>-2</sup>.
- 1.4 The inertia of an object ....
  - A is greater if its mass is smaller.
  - B increases as the applied force on the object increases.
  - C is the resistance to any change in its state of motion.
  - D increases as the frictional force on the object increases.
- 1.5 An astronaut has a weight F<sub>g</sub> on Earth. What distance, in terms of the radius of

# Physical Science March Common Test 2014 Memorandum

**JS Bruner** 

Physical Science March Common Test 2014 Memorandum:

Unveiling the Magic of Words: A Review of "Physical Science March Common Test 2014 Memorandum"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Physical Science March Common Test 2014 Memorandum**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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### **Table of Contents Physical Science March Common Test 2014 Memorandum**

- 1. Understanding the eBook Physical Science March Common Test 2014 Memorandum
  - The Rise of Digital Reading Physical Science March Common Test 2014 Memorandum
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science March Common Test 2014 Memorandum
  - 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 March Common Test 2014 Memorandum
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science March Common Test 2014 Memorandum
  - Personalized Recommendations
  - Physical Science March Common Test 2014 Memorandum User Reviews and Ratings
  - Physical Science March Common Test 2014 Memorandum and Bestseller Lists

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