



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

(QUESTION 5 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force F acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 2.00 m/s. See the diagram below.



- Define the term non-conservative force.
- Draw a labelled free-body diagram for the block when it is pulled up the incline.
- Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (5)

The same constant force F now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force F acts parallel to the horizontal surface.



The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% less than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

- Calculate the distance from point A to point B. (5)

(10)

Physical Science Pnovember 2013 Memo

**Nicole Graham, Margaret Davies, Lee
Godden**



Physical Science Pnovember 2013 Memo:

Physical Science Pnovenber 2013 Memo Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Physical Science Pnovenber 2013 Memo**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://letsgetcooking.org.uk/results/Resources/fetch.php/toshiba%20regza%2037hl67s%20manual.pdf>

Table of Contents Physical Science Pnovenber 2013 Memo

1. Understanding the eBook Physical Science Pnovenber 2013 Memo
 - The Rise of Digital Reading Physical Science Pnovenber 2013 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Pnovenber 2013 Memo
 - 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 Pnovenber 2013 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Pnovenber 2013 Memo
 - Personalized Recommendations
 - Physical Science Pnovenber 2013 Memo User Reviews and Ratings
 - Physical Science Pnovenber 2013 Memo and Bestseller Lists

5. Accessing Physical Science Pnovember 2013 Memo Free and Paid eBooks
 - Physical Science Pnovember 2013 Memo Public Domain eBooks
 - Physical Science Pnovember 2013 Memo eBook Subscription Services
 - Physical Science Pnovember 2013 Memo Budget-Friendly Options
6. Navigating Physical Science Pnovember 2013 Memo eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Pnovember 2013 Memo Compatibility with Devices
 - Physical Science Pnovember 2013 Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Pnovember 2013 Memo
 - Highlighting and Note-Taking Physical Science Pnovember 2013 Memo
 - Interactive Elements Physical Science Pnovember 2013 Memo
8. Staying Engaged with Physical Science Pnovember 2013 Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Pnovember 2013 Memo
9. Balancing eBooks and Physical Books Physical Science Pnovember 2013 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Pnovember 2013 Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Pnovember 2013 Memo
 - Setting Reading Goals Physical Science Pnovember 2013 Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Pnovember 2013 Memo
 - Fact-Checking eBook Content of Physical Science Pnovember 2013 Memo
 - 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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