

## G11 PHYSICAL SCIENCE PAPER 1 REVISION

### QUESTION 2 (Start on a new page.)

Three forces, **P**, **Q** and **R**, of magnitudes 800N, 200N and 600N respectively, act on a point **O** in the directions shown in the diagram below.

The forces are NOT drawn to scale.



Determine the magnitude and direction of the resultant force by  
**CALCULATION**

(8)  
[8]

### QUESTION 3 (Start on a new page.)

A constant force, **F**, pulls a 35kg block at a constant speed over a rough horizontal surface, **AB**, as shown in the diagram below. The coefficient of kinetic friction ( $\mu_k$ ) between the block and the surface is 0,4.



3.1 Draw a labelled free-body diagram showing ALL the forces acting on the block. (4)

3.2 State Newton's first law of motion in words. (2)

Calculate the magnitude of the:

3.3 Force **F** (6)

# Physical Science Paper Grd2013

**DP Hallahan**



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In a global inundated with screens and the cacophony of instantaneous interaction, the profound power and psychological resonance of verbal beauty usually fade in to obscurity, eclipsed by the regular assault of noise and distractions. However, nestled within the musical pages of **Physical Science Paper Grd2013**, a fascinating work of fictional brilliance that impulses with raw emotions, lies an unique journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that magical opus instructions readers on a psychological odyssey, lightly exposing the latent possible and profound impact stuck within the intricate web of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is central themes, dissect their captivating writing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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### **Table of Contents Physical Science Paper Grd2013**

1. Understanding the eBook Physical Science Paper Grd2013
  - The Rise of Digital Reading Physical Science Paper Grd2013
  - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper Grd2013
  - 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 a Physical Science Paper Grd2013
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper Grd2013
  - Personalized Recommendations

- Physical Science Paper Grd2013 User Reviews and Ratings
- Physical Science Paper Grd2013 and Bestseller Lists
- 5. Accessing Physical Science Paper Grd2013 Free and Paid eBooks
  - Physical Science Paper Grd2013 Public Domain eBooks
  - Physical Science Paper Grd2013 eBook Subscription Services
  - Physical Science Paper Grd2013 Budget-Friendly Options
- 6. Navigating Physical Science Paper Grd2013 eBook Formats
  - ePub, PDF, MOBI, and More
  - Physical Science Paper Grd2013 Compatibility with Devices
  - Physical Science Paper Grd2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Paper Grd2013
  - Highlighting and Note-Taking Physical Science Paper Grd2013
  - Interactive Elements Physical Science Paper Grd2013
- 8. Staying Engaged with Physical Science Paper Grd2013
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Paper Grd2013
- 9. Balancing eBooks and Physical Books Physical Science Paper Grd2013
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Physical Science Paper Grd2013
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Paper Grd2013
  - Setting Reading Goals Physical Science Paper Grd2013
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Paper Grd2013
  - Fact-Checking eBook Content of Physical Science Paper Grd2013

- 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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