

## 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)

# Exemplar Physical Science Paper1 2014

**E Durkheim**



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## **Table of Contents Exemplar Physical Science Paper1 2014**

1. Understanding the eBook Exemplar Physical Science Paper1 2014
  - The Rise of Digital Reading Exemplar Physical Science Paper1 2014
  - Advantages of eBooks Over Traditional Books
2. Identifying Exemplar Physical Science Paper1 2014
  - 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 Exemplar Physical Science Paper1 2014
  - User-Friendly Interface
4. Exploring eBook Recommendations from Exemplar Physical Science Paper1 2014
  - Personalized Recommendations
  - Exemplar Physical Science Paper1 2014 User Reviews and Ratings
  - Exemplar Physical Science Paper1 2014 and Bestseller Lists
5. Accessing Exemplar Physical Science Paper1 2014 Free and Paid eBooks

- Exemplar Physical Science Paper1 2014 Public Domain eBooks
  - Exemplar Physical Science Paper1 2014 eBook Subscription Services
  - Exemplar Physical Science Paper1 2014 Budget-Friendly Options
6. Navigating Exemplar Physical Science Paper1 2014 eBook Formats
- ePub, PDF, MOBI, and More
  - Exemplar Physical Science Paper1 2014 Compatibility with Devices
  - Exemplar Physical Science Paper1 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Exemplar Physical Science Paper1 2014
  - Highlighting and Note-Taking Exemplar Physical Science Paper1 2014
  - Interactive Elements Exemplar Physical Science Paper1 2014
8. Staying Engaged with Exemplar Physical Science Paper1 2014
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Exemplar Physical Science Paper1 2014
9. Balancing eBooks and Physical Books Exemplar Physical Science Paper1 2014
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Exemplar Physical Science Paper1 2014
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Exemplar Physical Science Paper1 2014
- Setting Reading Goals Exemplar Physical Science Paper1 2014
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exemplar Physical Science Paper1 2014
- Fact-Checking eBook Content of Exemplar Physical Science Paper1 2014
  - 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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