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 (μ_k) between the block and the surface is 0.4.



 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)

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JL Elias

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Table of Contents Physical Science Paper 1 Exampler 2014

- 1. Understanding the eBook Physical Science Paper 1 Exampler 2014
 - The Rise of Digital Reading Physical Science Paper 1 Exampler 2014
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Paper 1 Exampler 2014
 - Exploring Different Genres
 - o 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 Paper 1 Exampler 2014
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Paper 1 Exampler 2014
 - Personalized Recommendations
 - Physical Science Paper 1 Exampler 2014 User Reviews and Ratings
 - Physical Science Paper 1 Exampler 2014 and Bestseller Lists

- 5. Accessing Physical Science Paper 1 Exampler 2014 Free and Paid eBooks
 - Physical Science Paper 1 Exampler 2014 Public Domain eBooks
 - Physical Science Paper 1 Exampler 2014 eBook Subscription Services
 - Physical Science Paper 1 Exampler 2014 Budget-Friendly Options
- 6. Navigating Physical Science Paper 1 Exampler 2014 eBook Formats
 - ∘ ePub, PDF, MOBI, and More
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 - Physical Science Paper 1 Exampler 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper 1 Exampler 2014
 - Highlighting and Note-Taking Physical Science Paper 1 Exampler 2014
 - Interactive Elements Physical Science Paper 1 Exampler 2014
- 8. Staying Engaged with Physical Science Paper 1 Exampler 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - $\circ\,$ Following Authors and Publishers Physical Science Paper 1 Exampler 2014
- 9. Balancing eBooks and Physical Books Physical Science Paper 1 Exampler 2014
 - \circ Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper 1 Exampler 2014
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Paper 1 Exampler 2014
 - Setting Reading Goals Physical Science Paper 1 Exampler 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Paper 1 Exampler 2014
 - Fact-Checking eBook Content of Physical Science Paper 1 Exampler 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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