

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.



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 1

Ying-Ying Zheng

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Physical Science Paper 1:

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Robert S. Cohen,Marx W. Wartofsky,2012-12-06 These essays on the conceptual understanding of modern physics strike directly at some of the principal difficulties faced by contemporary philosophers of physical science Moreover they reverberate to earlier and classical struggles with those difficulties Each of these essays may be seen as both a commentary on our predecessors and an original analytic interpretation They come from work of the past decade most from meetings of the Boston Colloquium for the Philosophy of Science and they demonstrate again how problematic the fundamentals of our understanding of nature still are The themes will seem to be familiar but the variations are not only ingenious but also stimulating in some ways counterpoint And so once again we are confronted with issues of space and time irreversibility and measurement matter and process hypothetical reality and verifiability explanation and reduction phenomenal base and sophisticated theory unified science and the unity of nature and the limits of conventionalism We are grateful for the cooperation of our contributors and in particular for the agreement of George Ellis and C F von Weizsacker to allow us to use previously published papers

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Table of Contents Physical Science Paper 1

1. Understanding the eBook Physical Science Paper 1
 - The Rise of Digital Reading Physical Science Paper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper 1
 - 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 Paper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper 1
 - Personalized Recommendations
 - Physical Science Paper 1 User Reviews and Ratings
 - Physical Science Paper 1 and Bestseller Lists
5. Accessing Physical Science Paper 1 Free and Paid eBooks
 - Physical Science Paper 1 Public Domain eBooks
 - Physical Science Paper 1 eBook Subscription Services
 - Physical Science Paper 1 Budget-Friendly Options

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