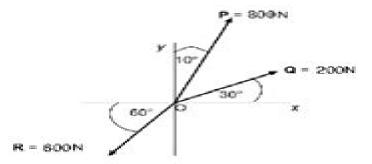
## **G11 PHYSICAL SCIENCE PAPER 1 REVISION**

#### 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.



- 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**

James B. Seaborn



The book delves into Physical Science Paper 1. Physical Science Paper 1 is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physical Science Paper 1, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Physical Science Paper 1
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