



basic education

Department
Basic Education
REPUBLIC OF SOUTH AFRICA

FULL MEMORANDUM GRADE 12 PHYSICS 2022 FINAL

This question paper consists of 18 pages and 3 data sheets.

(QUESTION 5 (Start on a new page.)

A 12 kg block is initially at rest at point A at the bottom of a ROUGH inclined plane. The block is pulled up the incline by a constant force F acting parallel to the incline. The block reaches point B, which is at a vertical height of 4.0 m above the horizontal, with a speed of 2.0 m/s. See the diagram below.



- 5.1 Define the term non-conservative force.
- 5.2 Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 5.3 Calculate the total work done on the block by the NON-CONSERVATIVE forces when the block moves from point A to point B. (5)

The same constant force F now moves the block at a CONSTANT VELOCITY across a rough horizontal surface from point B to point C, as shown below. Force F acts parallel to the horizontal surface.



The magnitude of the constant frictional force acting on the block while moving from point B to point C is 40 N, 40% less than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

- 5.4 Calculate the distance from point A to point B. (5)

Physical Science P1 November 2014 Memo Grade 12

M Woodhall



Physical Science P1 November 2014 Memo Grade 12:

This book delves into Physical Science P1 November 2014 Memo Grade 12. Physical Science P1 November 2014 Memo Grade 12 is a crucial topic that must 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 P1 November 2014 Memo Grade 12, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science P1 November 2014 Memo Grade 12
 - Chapter 2: Essential Elements of Physical Science P1 November 2014 Memo Grade 12
 - Chapter 3: Physical Science P1 November 2014 Memo Grade 12 in Everyday Life
 - Chapter 4: Physical Science P1 November 2014 Memo Grade 12 in Specific Contexts
 - Chapter 5: Conclusion
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