



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 2.00 m/s. See the diagram below.



- Define the term non-conservative force.
- Draw a labelled free-body diagram for the block when it is pulled up the incline.
- 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% greater than the magnitude of the constant frictional force acting on the block when it moves from point A to point B.

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

(10)

Physical Science Memorandum Grade11 September 2013

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Physical Science Memorandum Grade11 September 2013:

The book delves into Physical Science Memorandum Grade11 September 2013. Physical Science Memorandum Grade11 September 2013 is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Physical Science Memorandum Grade11 September 2013, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Physical Science Memorandum Grade11 September 2013
 - Chapter 2: Essential Elements of Physical Science Memorandum Grade11 September 2013
 - Chapter 3: Physical Science Memorandum Grade11 September 2013 in Everyday Life
 - Chapter 4: Physical Science Memorandum Grade11 September 2013 in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Physical Science Memorandum Grade11 September 2013. This chapter will explore what Physical Science Memorandum Grade11 September 2013 is, why Physical Science Memorandum Grade11 September 2013 is vital, and how to effectively learn about Physical Science Memorandum Grade11 September 2013.
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 6. In chapter 5, this book will draw a conclusion about Physical Science Memorandum Grade11 September 2013. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physical Science Memorandum Grade11 September 2013.

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