



basic education

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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 6 (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 3.00 m/s. See the diagram below.



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

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

# Physical Science Caps P1 Dbe November 2014

**William L. Ramsey**



## **Physical Science Caps P1 Dbe November 2014:**

Teaching Reading Comprehension to English Learners in Secondary Schools: A Research-Based Approach Cekiso, Madoda, Olifant, Florence, Mokhtari, Kouider, 2025-04-23 Teaching reading comprehension to English learners ELs in secondary schools presents unique challenges as these students must navigate the complexities of academic texts and the intricacies of language acquisition. Effective instruction requires a research-based approach that considers the diverse linguistic, cultural, and cognitive backgrounds of these learners. Recent studies highlight the importance of integrating strategies that build both language proficiency and content knowledge, essential for helping ELs develop the skills needed to comprehend complex materials. Fostering metacognitive awareness through strategies like summarizing, questioning, and making connections can empower students to become active and strategic readers. This approach recognizes the need for a supportive, inclusive classroom environment that encourages language development while promoting academic achievement in content areas. Further research may help educators provide English learners with the tools to thrive as capable readers in secondary school. Teaching Reading Comprehension to English Learners in Secondary School: A Research-Based Approach explores various aspects of teaching reading comprehension to English Second Language (ESL) learners in secondary schools. It examines current challenges and evidence-based strategies in reading comprehension. This book covers topics such as language learning, reading strategies, and teacher training and is a useful resource for academicians, researchers, and scientists.

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