

PHYSICAL SCIENCES P.1

MEMO-2024



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

G.12

NATIONAL
SENIOR CERTIFICATE

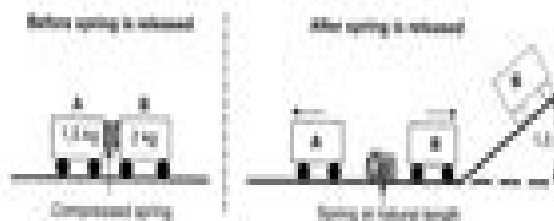
1 times by adding different masses to increase the hanging mass each time.
the effects of air friction.



data obtained were used to draw the sketch graph below.



length. The spring then falls to the ground.
Trolley A moves to the left, while trolley B moves to the right and then up a frictionless inclined plane, rising to a maximum vertical height of 1,5 m, as shown in the diagram below.



Ignore the rotational effects of the wheels.

- | | | |
|-----|--|-----|
| 6.1 | Write down the principle of conservation of mechanical energy in words. | (2) |
| 6.2 | Calculate the speed of trolley B at the bottom of the inclined plane. | (4) |
| 6.3 | For the frequency that the spring takes to return to its natural length. | |

(1 a new page.)

1 applied at an angle of 30° to the horizontal
ly at rest, as shown in the diagram below.

on of 10 N acts on the crate as it moves from rest at point A ab
point B. The distance between point A and point B is 1,5
at point B is 2 m s^{-1} .



is work done by a force.

of free-body diagram showing ALL the forces acting on the crate.

IF PRINCIPLES ONLY, calculate the magnitude of force F.

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Rose Army



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Table of Contents 14 Physical Science Exemplar Grade 12 Memorandum

1. Understanding the eBook 14 Physical Science Exemplar Grade 12 Memorandum
 - The Rise of Digital Reading 14 Physical Science Exemplar Grade 12 Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying 14 Physical Science Exemplar Grade 12 Memorandum
 - 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 14 Physical Science Exemplar Grade 12 Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Physical Science Exemplar Grade 12 Memorandum
 - Personalized Recommendations
 - 14 Physical Science Exemplar Grade 12 Memorandum User Reviews and Ratings
 - 14 Physical Science Exemplar Grade 12 Memorandum and Bestseller Lists
5. Accessing 14 Physical Science Exemplar Grade 12 Memorandum Free and Paid eBooks
 - 14 Physical Science Exemplar Grade 12 Memorandum Public Domain eBooks
 - 14 Physical Science Exemplar Grade 12 Memorandum eBook Subscription Services
 - 14 Physical Science Exemplar Grade 12 Memorandum Budget-Friendly Options
6. Navigating 14 Physical Science Exemplar Grade 12 Memorandum eBook Formats

- ePub, PDF, MOBI, and More
 - 14 Physical Science Exemplar Grade 12 Memorandum Compatibility with Devices
 - 14 Physical Science Exemplar Grade 12 Memorandum Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 14 Physical Science Exemplar Grade 12 Memorandum
 - Highlighting and Note-Taking 14 Physical Science Exemplar Grade 12 Memorandum
 - Interactive Elements 14 Physical Science Exemplar Grade 12 Memorandum
 8. Staying Engaged with 14 Physical Science Exemplar Grade 12 Memorandum
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 14 Physical Science Exemplar Grade 12 Memorandum
 9. Balancing eBooks and Physical Books 14 Physical Science Exemplar Grade 12 Memorandum
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 14 Physical Science Exemplar Grade 12 Memorandum
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine 14 Physical Science Exemplar Grade 12 Memorandum
 - Setting Reading Goals 14 Physical Science Exemplar Grade 12 Memorandum
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of 14 Physical Science Exemplar Grade 12 Memorandum
 - Fact-Checking eBook Content of 14 Physical Science Exemplar Grade 12 Memorandum
 - 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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