

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 hypothesis that the spring takes no time to return to its natural length.

(4 new pages.)

is 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 up
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.

Physical Science Memo 2013 November

Ying-Ying Zheng



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Table of Contents Physical Science Memo 2013 November

1. Understanding the eBook Physical Science Memo 2013 November
 - The Rise of Digital Reading Physical Science Memo 2013 November
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Memo 2013 November
 - 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 Physical Science Memo 2013 November
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Memo 2013 November

- Personalized Recommendations
 - Physical Science Memo 2013 November User Reviews and Ratings
 - Physical Science Memo 2013 November and Bestseller Lists
5. Accessing Physical Science Memo 2013 November Free and Paid eBooks
 - Physical Science Memo 2013 November Public Domain eBooks
 - Physical Science Memo 2013 November eBook Subscription Services
 - Physical Science Memo 2013 November Budget-Friendly Options
 6. Navigating Physical Science Memo 2013 November eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Memo 2013 November Compatibility with Devices
 - Physical Science Memo 2013 November Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Memo 2013 November
 - Highlighting and Note-Taking Physical Science Memo 2013 November
 - Interactive Elements Physical Science Memo 2013 November
 8. Staying Engaged with Physical Science Memo 2013 November
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Memo 2013 November
 9. Balancing eBooks and Physical Books Physical Science Memo 2013 November
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Memo 2013 November
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science Memo 2013 November
 - Setting Reading Goals Physical Science Memo 2013 November
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science Memo 2013 November

-
- Fact-Checking eBook Content of Physical Science Memo 2013 November
 - 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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