

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.



- 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.

(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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Didier Musso



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Table of Contents 2013 September Pphysics Memo Kzn

1. Understanding the eBook 2013 September Pphysics Memo Kzn
 - The Rise of Digital Reading 2013 September Pphysics Memo Kzn
 - Advantages of eBooks Over Traditional Books
2. Identifying 2013 September Pphysics Memo Kzn
 - 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 2013 September Pphysics Memo Kzn
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2013 September Pphysics Memo Kzn
 - Personalized Recommendations
 - 2013 September Pphysics Memo Kzn User Reviews and Ratings
 - 2013 September Pphysics Memo Kzn and Bestseller Lists
5. Accessing 2013 September Pphysics Memo Kzn Free and Paid eBooks
 - 2013 September Pphysics Memo Kzn Public Domain eBooks

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- 2013 September Pphysics Memo Kzn Budget-Friendly Options
- 6. Navigating 2013 September Pphysics Memo Kzn eBook Formats
 - ePub, PDF, MOBI, and More
 - 2013 September Pphysics Memo Kzn Compatibility with Devices
 - 2013 September Pphysics Memo Kzn Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2013 September Pphysics Memo Kzn
 - Highlighting and Note-Taking 2013 September Pphysics Memo Kzn
 - Interactive Elements 2013 September Pphysics Memo Kzn
- 8. Staying Engaged with 2013 September Pphysics Memo Kzn
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2013 September Pphysics Memo Kzn
- 9. Balancing eBooks and Physical Books 2013 September Pphysics Memo Kzn
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2013 September Pphysics Memo Kzn
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 2013 September Pphysics Memo Kzn
 - Setting Reading Goals 2013 September Pphysics Memo Kzn
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 2013 September Pphysics Memo Kzn
 - Fact-Checking eBook Content of 2013 September Pphysics Memo Kzn
 - 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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