

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.

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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B Lingard



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Table of Contents Physical Science Papergrade12 Memo 2012 10841

1. Understanding the eBook Physical Science Papergrade12 Memo 2012 10841
 - The Rise of Digital Reading Physical Science Papergrade12 Memo 2012 10841
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Papergrade12 Memo 2012 10841
 - 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 Papergrade12 Memo 2012 10841
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Papergrade12 Memo 2012 10841
 - Personalized Recommendations
 - Physical Science Papergrade12 Memo 2012 10841 User Reviews and Ratings
 - Physical Science Papergrade12 Memo 2012 10841 and Bestseller Lists

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 - Physical Science Papergrade12 Memo 2012 10841 Public Domain eBooks
 - Physical Science Papergrade12 Memo 2012 10841 eBook Subscription Services
 - Physical Science Papergrade12 Memo 2012 10841 Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
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 - Physical Science Papergrade12 Memo 2012 10841 Enhanced eBook Features
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8. Staying Engaged with Physical Science Papergrade12 Memo 2012 10841
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Papergrade12 Memo 2012 10841
9. Balancing eBooks and Physical Books Physical Science Papergrade12 Memo 2012 10841
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Papergrade12 Memo 2012 10841
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
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 - Setting Reading Goals Physical Science Papergrade12 Memo 2012 10841
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Papergrade12 Memo 2012 10841
 - Fact-Checking eBook Content of Physical Science Papergrade12 Memo 2012 10841
 - 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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