

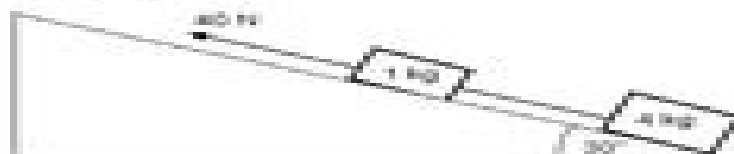
PHYSICAL SCIENCES P1 REVISION DOCUMENT

NEWTON'S LAWS

State the following laws

1. Newton's second law of motion
2. Newton's law of universal gravitation

QUESTION 2



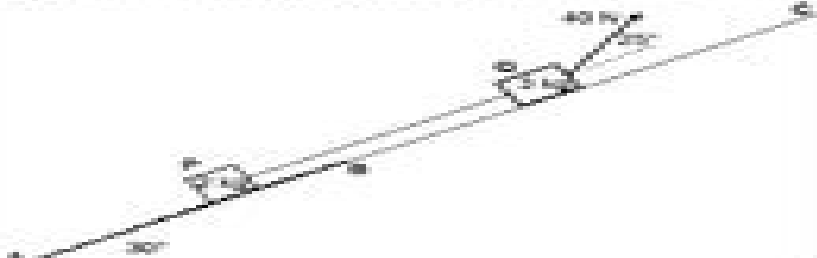
A block of mass 1 kg is connected to another block of mass 4 kg by a light inextensible string. The 1 kg block is on the inclined plane, by means of a constant 40 N force parallel to the plane as shown in the diagram below. The magnitude of the kinetic frictional force between the surface and the 4 kg block is 10 N. The coefficient of kinetic friction between the 1 kg block and the surface is 0,20.

1. State Newton's third law of motion in words. (2)
2. Draw a labelled free-body diagram showing ALL the forces acting on the 1 kg block as it moves up the incline. (5)
3. Calculate the magnitude of the:
 1. Kinetic frictional force between the 1 kg block and the surface (2)
 2. Tension in the string connecting the two blocks (5)

[14]

QUESTION 15

Block P, of mass 2 kg, is connected to block Q, of mass 3 kg, by a light inextensible string. Both blocks are on a plane inclined at an angle of 30° to the horizontal. Block Q is pulled by a constant force of 40 N at an angle of 25° to the incline.



Block P moves on a rough section, AB, of the incline, while block Q moves on a frictionless section, BC, of the incline. See diagram.

An average constant frictional force of 2,5 N acts on block P as it moves from A to B up the incline.

1. State Newton's Second Law in words. (2)
2. Draw a labelled free-body diagram for block P. (4)
3. Calculate the magnitude of the acceleration of block P while block P is moving on section AB. (8)

4. If block P has now passed point B, how will its acceleration compare to that calculated in QUESTION 15.3? Choose from: GREATER THAN, SMALLER THAN, or EQUAL TO. Give a reason for the answer. (2)

[14]

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Raffaela Di Napoli

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the name bar.

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Physical Science P2 Grade Nov 2013 Memo Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Physical Science P2 Grade Nov 2013 Memo**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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 - The Rise of Digital Reading Physical Science P2 Grade Nov 2013 Memo
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science P2 Grade Nov 2013 Memo
 - 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 P2 Grade Nov 2013 Memo
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science P2 Grade Nov 2013 Memo
 - Personalized Recommendations
 - Physical Science P2 Grade Nov 2013 Memo User Reviews and Ratings
 - Physical Science P2 Grade Nov 2013 Memo and Bestseller Lists

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 - Physical Science P2 Grade Nov 2013 Memo eBook Subscription Services
 - Physical Science P2 Grade Nov 2013 Memo Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Physical Science P2 Grade Nov 2013 Memo Compatibility with Devices
 - Physical Science P2 Grade Nov 2013 Memo Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science P2 Grade Nov 2013 Memo
 - Highlighting and Note-Taking Physical Science P2 Grade Nov 2013 Memo
 - Interactive Elements Physical Science P2 Grade Nov 2013 Memo
8. Staying Engaged with Physical Science P2 Grade Nov 2013 Memo
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science P2 Grade Nov 2013 Memo
9. Balancing eBooks and Physical Books Physical Science P2 Grade Nov 2013 Memo
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science P2 Grade Nov 2013 Memo
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science P2 Grade Nov 2013 Memo
 - Setting Reading Goals Physical Science P2 Grade Nov 2013 Memo
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science P2 Grade Nov 2013 Memo
 - Fact-Checking eBook Content of Physical Science P2 Grade Nov 2013 Memo
 - 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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