

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.

- 2.1 State Newton's third law of motion in words. (2)
- 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)
- 2.3 Calculate the magnitude of the:
 - 2.3.1 Kinetic frictional force between the 1 kg block and the surface (2)
 - 2.3.2 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.

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

- 15.4 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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Table of Contents Physical Exemplar P2 2014 Grd11 2013 Nov

1. Understanding the eBook Physical Exemplar P2 2014 Grd11 2013 Nov
 - The Rise of Digital Reading Physical Exemplar P2 2014 Grd11 2013 Nov
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Exemplar P2 2014 Grd11 2013 Nov
 - 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 Exemplar P2 2014 Grd11 2013 Nov
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Exemplar P2 2014 Grd11 2013 Nov
 - Personalized Recommendations
 - Physical Exemplar P2 2014 Grd11 2013 Nov User Reviews and Ratings
 - Physical Exemplar P2 2014 Grd11 2013 Nov and Bestseller Lists
5. Accessing Physical Exemplar P2 2014 Grd11 2013 Nov Free and Paid eBooks

- Physical Exemplar P2 2014 Grd11 2013 Nov Public Domain eBooks
 - Physical Exemplar P2 2014 Grd11 2013 Nov eBook Subscription Services
 - Physical Exemplar P2 2014 Grd11 2013 Nov Budget-Friendly Options
6. Navigating Physical Exemplar P2 2014 Grd11 2013 Nov eBook Formats
- ePub, PDF, MOBI, and More
 - Physical Exemplar P2 2014 Grd11 2013 Nov Compatibility with Devices
 - Physical Exemplar P2 2014 Grd11 2013 Nov Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Physical Exemplar P2 2014 Grd11 2013 Nov
 - Highlighting and Note-Taking Physical Exemplar P2 2014 Grd11 2013 Nov
 - Interactive Elements Physical Exemplar P2 2014 Grd11 2013 Nov
8. Staying Engaged with Physical Exemplar P2 2014 Grd11 2013 Nov
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Exemplar P2 2014 Grd11 2013 Nov
9. Balancing eBooks and Physical Books Physical Exemplar P2 2014 Grd11 2013 Nov
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Exemplar P2 2014 Grd11 2013 Nov
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Exemplar P2 2014 Grd11 2013 Nov
- Setting Reading Goals Physical Exemplar P2 2014 Grd11 2013 Nov
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Exemplar P2 2014 Grd11 2013 Nov
- Fact-Checking eBook Content of Physical Exemplar P2 2014 Grd11 2013 Nov
 - 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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