

## 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  $30^\circ$  to the horizontal. Block Q is pulled by a constant force of 40 N at an angle of  $25^\circ$  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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**L Darling-Hammond**



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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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