

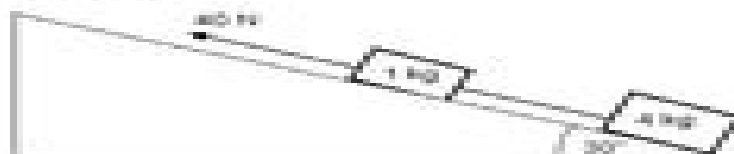
## PHYSICAL SCIENCES P1 REVISION DOCUMENT

### NEWTON'S LAWS

State the following laws

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

#### QUESTION 2



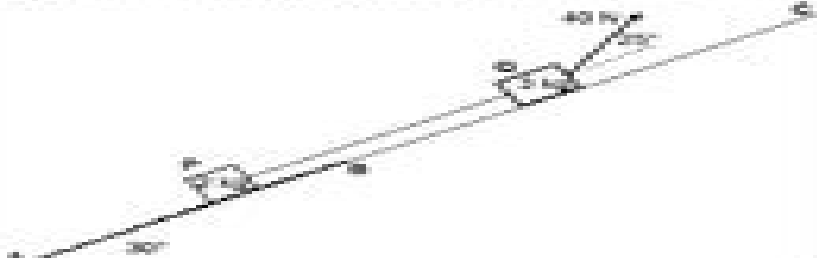
A block of mass 1 kg is connected to another block of mass 4 kg by a light inextensible string. The 1 kg block is on the inclined plane, by means of a constant 40 N force parallel to the plane as shown in the diagram below. The magnitude of the kinetic frictional force between the surface and the 4 kg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

# Physical Science P2 November 2013 Memo

**KJ Lindholm-Leary**



**Physical Science P2 November 2013 Memo:**

## Decoding **Physical Science P2 November 2013 Memo**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Science P2 November 2013 Memo**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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