

## 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



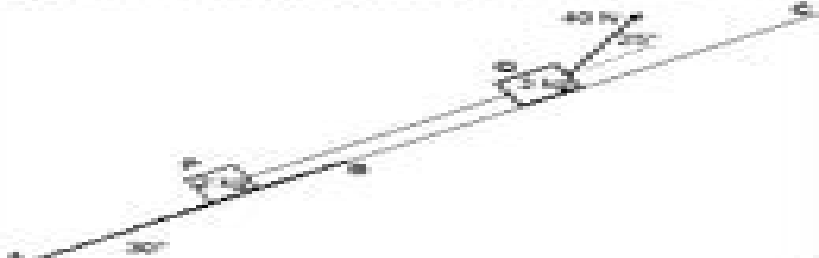
A block of mass 1 kg is connected to another block of mass 4 kg by a light inextensible string. The 1 kg block is on the inclined plane, by means of a constant 40 N force parallel to the plane as shown in the diagram below. The magnitude of the kinetic frictional force between the surface and the 4 kg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



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web alfred bernhard nobel spreek uit no b e l stockholm 21 oktober 1833 san remo 10 december 1896 was een zweeds chemicus en industrieel het bekendst is zijn uitvinding van het dynamiet in 1866 hoewel hij ook een reeks andere explosiemiddelen heeft uitgevonden en gefabriceerd het chemische element nobelium is naar hem genoemd

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web alfred nobel was born in stockholm on 21 october 1833 his father immanuel nobel was an engineer and inventor who built bridges and buildings in stockholm in connection with his construction work immanuel nobel also experimented with different techniques for blasting rocks alfred nobel

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web signature alfred bernhard nobel noʊˈbɛl noʊˈbɛl swedish ˈɛlfrɛd nɔˈbɛl: i 21 october 1833 10 december 1896 was a swedish chemist engineer inventor businessman and philanthropist he is known for creating dynamite as well as having bequeathed his fortune to establish the nobel prize

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web alfred bernhard nobel biyografisi alfred bernhard nobel 1833 doğumlu İsveç li kimyager mühendis dinamit i icat eden bilim adamı nobel Ödülü nün fikir babası

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web alfred bernhard nobel 21 ekim 1833 stokholm İsveç 10 aralık 1896 san remo İtalya İsveçli kimyager ve mühendis dinamitin mucidi vasiyetiyle nobel Ödülleri ni başlatmıştır sentetik element nobelyuma onun adı verilmiştir

*alfred nobel kimdir biyografi biyografi arşivi kim kimdir* - Sep 11 2022

web alfred nobel 21 ekim 1833 yılında stockholm de doğdu büyük bir İsveçli mucit ve sanayici olan alfred nobel birçok zıt yönleri olan bir insandı İflas etmiş bir kişinin oğluydu fakat kendisi bir milyoner oldu edebiyat aşığı bir fencydi ardından bir ideal bırakan sanayici oldu