

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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AW Chickering



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Physical Science Memo 2013 November P1: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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