

Question # 5

Physical Sciences: EXEMPLAR 2014 Paper 1 (Grade 12)

(WORK ENERGY AND POWER)

QUESTION 4 (Start on a new page.)

Two boys, each of mass m , are standing at the back of a trolley of mass $2m$. The trolley is at rest on a frictionless horizontal surface.

The boys jump off simultaneously at one end of the trolley with a horizontal velocity of 2 m s^{-1} . The trolley moves in the opposite direction.

- 4.1 Write down the principle of conservation of linear momentum in words. (2)
- 4.2 Calculate the final velocity of the trolley. (2)
- 4.3 The two boys jump off the trolley one at a time. Show that the velocity of the trolley compares to that calculated in QUESTION 4.2 if either jump off FIRST or LAST. (10)

QUESTION 5 (Start on a new page.)

A 2 kg trolley is at rest on a horizontal frictionless surface. A constant horizontal force of 10 N is applied to the trolley over a distance of 2.5 m .



When the force is removed at point A, the trolley moves a distance of 10 m up the incline until it reaches the maximum height at point B. When the trolley moves up the incline, there is a constant frictional force of 2 N acting on it.

- 5.1 Write down the name of a non-conservative force acting on the trolley as it moves up the incline. (1)
- 5.2 Draw a labelled free-body diagram showing all the forces acting on the trolley as it moves along the horizontal surface. (2)
- 5.3 State the WORK-ENERGY THEOREM in words. (2)
- 5.4 Use the work-energy theorem to calculate the speed of the trolley when it reaches point B. (4)
- 5.5 Calculate the height h that the trolley reaches at point B. (10)

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Exampler 2014 Physical Sciences Grade 1

James Ellis



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Physics Handbook & Study Guide Grade 11-12 IEB Kevin Smith,2024-02-01 A comprehensive summary of Grade 11 12 Physics Simple logical summaries with example exam questions and work through solutions The book covers the fundamentals of Grade 11 12 Physics and complements the material in any class text High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations National Academies of Sciences, Engineering, and Medicine,National Academy of Engineering,Division on Engineering and Physical Sciences,National Materials and Manufacturing Board,Committee on Connector Reliability for Offshore Oil and Natural Gas Operations,2018-06-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions But extracting these offshore petroleum resources involves the possibility however remote of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic Bolted connections are an integral feature of deep water well operations High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors It focuses on critical bolting bolts studs nuts and fasteners used on critical connections **Physical Science** ,1999-11-01 Beginning Physical Science Michael Anthony Atherton,Patrick Namasaka,Don Sloan,1976 Physical Science Grade 1 Steps To Literacy Staff,2014-06-01 **Physical Science and Engineering Science, Level 1** James Ellis,1979 *Introduction to Physical Science* ,1894 **Harcourt Science, Grade 1** Harcourt School Publishers Staff,2002-01-01 *Introductory Physical Science* Pearson Education Canada,Prentice Hall Regents,1967-11-30 **An Introduction to Physical Science** Jerry Wilson,Charles Higgins,James Shipman,2013

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