

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 ms^{-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? (1)

(5)

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. (2)

(11)

Physical Science Exemplar 2014 Grade 12

J Ma



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Challenges and Opportunities for Transforming From STEM to STEAM Education Thomas, Kelli, Huffman, Douglas, 2020-01-10 The addition of the arts to STEM education now known as STEAM adds a new dimension to problem solving within those fields offering students tools such as imagination and resourcefulness to incorporate into their designs However the shift from STEM to STEAM has changed what it means for students to learn within and across these disciplines Redesigning curricula to include the arts is the next step in preparing students throughout all levels of education Challenges and Opportunities for Transforming From STEM to STEAM Education is a pivotal reference source that examines the challenges and opportunities presented in redesigning STEM education to include creativity innovation and design from the arts including new approaches to STEAM and their practical applications in the classroom While highlighting topics including curriculum design teacher preparation and PreK 20 education this book is ideally designed for teachers curriculum developers instructional designers deans museum educators policymakers administrators researchers academicians and students

Leading improvement in school community wellbeing Donna Cross, Leanne Lester, 2023-12-01 More than ever before the wellbeing of students staff and the school community must be a priority for principals and school leaders Leading Improvement in School Community Wellbeing provides a framework for a set of high impact strategies that individually and together can be the focus of improving wellbeing across the school The book provides school leaders with key research based school improvement practices authentic case studies in the form of principals reflections and crucially practical explanations outlining how to choose a particular practice and how to successfully embed or implement that strategy within the school Asking What s happening What s working and What s next the three parts of the book provide tools to assess the school community s wellbeing strengths and needs to determine actions required to improve student and staff wellbeing and to effectively implement wellbeing strategies across the school for the benefit of the entire school community

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Physical Science National Geographic Society (U.S.), Glencoe/McGraw-Hill, 2002* *An Approach to Physical Science* Physical Science for Non-Science Students, 1969 Introduction to Physical Science , 2005 **Introduction to Physical Science** , 1894 **An Introduction to Physical Science** James T. Shipman, Jerry D. Wilson, Aaron W. Todd, 1997

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