



2 Worksheet: Work, energy and power

QUESTION 1

- 1.1 A girl with mass 60 kg slides 3 m down an inclined plane as shown in the picture.

- Calculate the work done on the girl by gravity.
- Calculate the work done on the girl by the normal force.



- 1.2 A block (5 kg) is pulled by a force of 60 N at an angle of 30° to the ground. The block moves 3,25 m.

- Calculate the work done on the block by gravity.
- Calculate the work done on the block by the applied force.



- 1.3 A 1200 kg car is pulled 3 m up an incline (30° with the ground) by a rope exerting a force of 8000 N on the car. The car experiences a 20 N frictional force.

- Draw a labelled free body diagram of all the forces acting on the car.
- Calculate the net work done on the car.



- 1.4



A block (5 kg) is pulled by a 50 N at an angle of 30° to the ground. The block experiences a 4,2 N frictional force and moves 2,60 m. The block starts from rest. Use the work-energy principle to calculate the speed of the block after the 2,60 m.

- 1.5 A film star in a car (together 720 kg) drives 4,8 m down an inclined plane as indicated in the picture. She starts from rest. The car experiences a frictional force of 23 N, and the engine exerts a force of 200 N.

- Calculate the work done on the car by the engine.
- Calculate the velocity of the car after moving 4,8 m.



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Power ,1940 Making Sense of Secondary Science Rosalind Driver,Ann Squires,Peter Rushworth,Valerie Wood-Robinson,2014-09-19 What ideas do children hold about the natural world How do these ideas affect their learning of science Young learners bring to the classroom knowledge and ideas about many aspects of the natural world constructed from their experiences of education and from outside school These ideas contribute to subsequent learning and research has shown that teaching of science is unlikely to be effective unless it takes learners perspectives into account Making Sense of Secondary Science provides a concise accessible summary of international research into learners ideas about science presenting evidence based insight into the conceptions that learners hold before and even despite teaching With expert summaries from across the science domains it covers research findings from life and living processes materials and their properties and physical processes This classic text is essential reading for all trainee secondary elementary and primary school science teachers as well as those researching the science curriculum and science methods who want to deepen their understanding of how learners think and to use these insights to inform teaching strategies It also provides a baseline for researchers wishing to investigate contemporary influences on children s ideas and to study the persistence of these conceptions Both components of Making Sense of Secondary Science this book and the accompanying teacher s resource file Making Sense of Secondary Science Support materials for teachers were developed as a result of a collaborative project between Leeds City Council Department of Education and the Children s Learning in Science Research Group at the University of Leeds UK *Examination Papers of Admission to the United States Naval Academy ...* United States Naval Academy,1899 *Kinetic Theory: The Chapman-Enskog solution of the transport equation for moderately dense gases* Stephen G. Brush,1972 **Making Sense of Secondary Science** James Driver,2013-01-11 What ideas do children hold about the natural world How do these ideas affect their learning of science When children begin secondary school they already have knowledge and ideas about many aspects of the natural world from their experiences both in primary classes and outside school These ideas contribute to subsequent learning and research has shown that teaching is unlikely to be effective unless it takes learners perspectives into account Making Sense of Secondary Science Research into Children s Ideas provides a concise accessible summary of the research that has been done internationally in this area The research findings are arranged in three main sections life and living processes materials and their properties and physical processes Much of this material has hitherto been difficult to access and its publication in this convenient form will be welcomed by all science teachers both in initial training and in schools who want to deepen their understanding of how their children think

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