

**Concept-Development  
Practice Page****9-1****Work and Energy**

1. How much work (energy) is needed to lift an object that weighs 200 N to a height of 4 m?

800 J

2. How much power is needed to lift the 200-N object to a height of 4 m in 4 s?

200 W

3. What is the power output of an engine that does 60,000 J of work in 10 s?

6 kW

4. The block of ice weighs 500 newtons.

- a. What is the mechanical advantage of the incline?

2:1

- b. How much force is needed to push it up the incline (neglect friction)?

250 N

5. All the ramps are 5 m high. We know that the KE of the block at the bottom of the ramp will be equal to the loss of PE (conservation of energy). Find the speed of the block at ground level in each case. [Hint: Do you recall from earlier chapters how long it takes something to fall a vertical distance of 5 m from a position of rest (assume  $g = 10 \text{ m/s}^2$ )? And how much speed a falling object acquires in this time? This gives you the answer to Case 1. Discuss with your classmates how energy conservation gives you the answers to Cases 2 and 3.]



Case 1: Speed = 10 m/s    Case 2: Speed = 10 m/s    Case 3: Speed = 10 m/s

Block on A reaches bottom first; greater acceleration and less ramp distance. Although it will have the same speed at bottom, the time it takes to reach that speed is different!

**CONCEPTUAL PHYSICS**

# Conceptual Physics Chapter Work Answers

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A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the 'EduGorilla Prep Experts' text.

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Conceptual Physics ,1985 Rev ed of Conceptual physics a new introduction to your environment 4th ed 1981

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Student Study Guide & Selected Solutions Manual David D. Reid, 2007

Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers John R. Gordon, Raymond A. Serway, 2004 Written by John R. Gordon, Ralph McGrew and Raymond Serway, the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text. This manual also features a list of important equations, concepts and answers to selected end of chapter questions.

*Student Study Guide and Selected Solutions Manual, Volume 2* Bo Lou, 2006-05

Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day. Relevant content, lively explorations and a wealth of hands on activities take students' understanding of science beyond the page and into the world around them. Now includes even more technology tools and activities to support differentiated instruction.

**Physics** Biman Das, 2006-06 Biman Das, SUNY Potsdam. This easy to carry 5 x 7 paperback contains a summary of the entire text including all key concepts and equations as well as tips and hints.

**Physics for Scientists and Engineers** Raymond A. Serway, 2004 NOT SOLD SEPARATELY. PHYSICS FOR SCIENTISTS AND ENGINEERS 6th maintains the Serway traditions of concise writing for

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