

**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

Answers For Conceptual Physics Energy

Albert A Gayle



Answers For Conceptual Physics Energy:

Principles of Physics Raymond A. Serway, 1997-08 Public Works for Water and Power Development and Energy Research Appropriations for Fiscal Year 1978 United States. Congress. Senate. Committee on Appropriations. Subcommittee on Public Works, 1977 *Handbook of Research on Pedagogical Innovations for Sustainable Development* Thomas, Ken D., Muga, Helen E., 2014-03-31 Summary This book brings together case study examples in the fields of sustainability sustainable development and education for sustainable development

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

Energy Roger A. Hinrichs, Roger Hinrichs, Merlin H. Kleinbach, 2002 This book is an introductory textbook that emphasizes the physical principles behind energy and its effects on our environment but with a US bias

Effective Spacetime Karen Crowther, 2016-07-07 This book discusses the notion that quantum gravity may represent the breakdown of spacetime at extremely high energy scales If spacetime does not exist at the fundamental level then it has to be considered emergent in other words an effective structure valid at low energy scales The author develops a conception of emergence appropriate to effective theories in physics and shows how it applies or could apply in various approaches to quantum gravity including condensed matter approaches discrete approaches and loop quantum gravity Energy Roger Hinrichs, Merlin H. Kleinbach, 2006 This introductory textbook emphasizes the physical principles behind energy and its effects on our environment It can be used in physics technology physical science and environmental science courses for non science majors

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