

Chapter 9 Energy

Exercises**9.1 Work (pages 145–146)**

- Circle the letter next to the correct mathematical equation for work.
 - work = force + distance
 - work = distance + force
 - work = force \times distance
 - work = force \times distance²
- You can use the equation in Question 1 to calculate work when the force is constant and the motion takes place in a straight line in the direction of the force.
- You do work if you lift a book one meter above the ground. How does the amount of work change in each of the following cases?
 - You lift the book twice as high. You do twice as much work.
 - You lift two identical books one meter above the ground. You do twice as much work.
- Complete the table by naming the two general categories of work and giving an example of each.

Category of Work	Example
work done against another force	Possible answer: When an archer stretches her bow, she is doing work against the elastic forces of the bow.
work done to change the speed of an object	Possible answer: An engine does work increasing or decreasing the speed of a car.

- The unit of work is the joule.
- Suppose that you apply a 50-N horizontal force to a 25-kg box, pushing the box 6 meters across the floor. How much work do you do on the box? 300 J

9.2 Power (pages 146–147)

- Power is the rate at which work is done.
- Power equals work done divided by time interval.
- The unit of power is the watt.
- One megawatt (MW) equals one million watts.
- In the United States, we customarily rate engines in units of horsepower, which is equivalent to 0.75 kilowatt.

9.3 Mechanical Energy (page 147)

- Define energy.
the property of an object or system that enables it to do work
- What is the SI unit of energy? joule

Conceptual Physics And Study Workbook Answer Key

Karl F. Kuhn, Frank Noschese

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Instructor's Manual to Accompany Conceptual Physics Paul G. Hewitt, 1977 *Conceptual Physics Problem Solving Exercises in Physics* Se Jennifer Bond Hickman, 1998-04-03

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 Solutions Manual and Study Guide for Serway and Jewett's Physics for Scientists and Engineers, Sixth Edition

John R. Gordon, Ralph V. McGrew, 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 & Selected Solutions Manual David D. Reid, 2007

2008 Physics Education Research Conference Charles Henderson, Mel Sabella, Leon Hsu, 2008-11-21 The 2008 Physics Education Research Conference brought together researchers studying a wide variety of topics in physics education. The conference theme was Physics Education Research with Diverse Student Populations. Researchers specializing in diversity issues were invited to help establish a dialog and spur discussion about how the results from this work can inform the physics education research community. The organizers encouraged physics education researchers who are using research based instructional materials with non traditional students at either the pre college level or the college level to share their experiences as instructors and researchers in these classes.

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