

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 × distance**
 - work = force × 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
<u>work done against another force</u>	Possible answer: When an archer stretches her bow, she is doing work against the elastic forces of the bow.
<u>work done to change the speed of an object</u>	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 Study Workbook Answer Key

Chapter28

M Tight



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International Guide to Student Achievement John Hattie, Eric M. Anderman, 2013-01-17 The International Guide to Student Achievement brings together and critically examines the major influences shaping student achievement today There are many often competing claims about how to enhance student achievement raising the questions of What works and What works best World renowned bestselling authors John Hattie and Eric M Anderman have invited an international group of scholars to write brief empirically supported articles that examine predictors of academic achievement across a variety of topics and domains Rather than telling people what to do in their schools and classrooms this guide simply provides the first ever compendium of research that summarizes what is known about the major influences shaping students academic achievement around the world Readers can apply this knowledge base to their own school and classroom settings The 150 entries serve as intellectual building blocks to creatively mix into new or existing educational arrangements and aim for quick easy reference Chapter authors follow a common format that allows readers to more seamlessly compare and contrast information across entries guiding readers to apply this knowledge to their own classrooms their curriculums and teaching strategies and their teacher training programs

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A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education, 1979

Monthly Catalog of United States Government Publications ,1993

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