

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 Answer Key Chapter 34

Sadri Hassani



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Physics for Scientists and Engineers Study Guide Paul A. Tipler, Gene Mosca, 2008-01-11 The study guide provides students with key physical quantities and equations misconceptions to avoid questions and practice problems to gain further understanding of physics concepts and quizzes to test student knowledge of chapters All written with the same level of detail as the examples found in the text

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Physics for Scientists and Engineers, Volume 2: Electricity, Magnetism, Light, and Elementary Modern Physics Paul Allen Tipler, 2004

Science Instruction in the Middle and Secondary Schools Eugene L. Chiappetta, Thomas R. Koballa, 2002 This science methods textbook is designed to prepare middle and high school science teachers to help students become scientifically and technologically literate by first helping them understand the elements of science reform and then supporting their efforts Features new to the fifth edition include Open cases and vignettes that illustrate how science teachers help students construct their own understanding Stop and Reflect exercises throughout each chapter to help readers contextualize and reflect upon what was read Expanded coverage of teaching students with special needs and equity in science teaching and learning Discussion of a variety of alternative and authentic assessment methods

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