

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 27

**John D. Cutnell, Kenneth W.
Johnson, David Young, Shane Stadler**

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Table of Contents Conceptual Physics Answer Key Chapter 27

1. Understanding the eBook Conceptual Physics Answer Key Chapter 27
 - The Rise of Digital Reading Conceptual Physics Answer Key Chapter 27
 - Advantages of eBooks Over Traditional Books
2. Identifying Conceptual Physics Answer Key Chapter 27
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Conceptual Physics Answer Key Chapter 27
 - User-Friendly Interface
4. Exploring eBook Recommendations from Conceptual Physics Answer Key Chapter 27
 - Personalized Recommendations
 - Conceptual Physics Answer Key Chapter 27 User Reviews and Ratings
 - Conceptual Physics Answer Key Chapter 27 and Bestseller Lists

5. Accessing Conceptual Physics Answer Key Chapter 27 Free and Paid eBooks
 - Conceptual Physics Answer Key Chapter 27 Public Domain eBooks
 - Conceptual Physics Answer Key Chapter 27 eBook Subscription Services
 - Conceptual Physics Answer Key Chapter 27 Budget-Friendly Options
6. Navigating Conceptual Physics Answer Key Chapter 27 eBook Formats
 - ePub, PDF, MOBI, and More
 - Conceptual Physics Answer Key Chapter 27 Compatibility with Devices
 - Conceptual Physics Answer Key Chapter 27 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Conceptual Physics Answer Key Chapter 27
 - Highlighting and Note-Taking Conceptual Physics Answer Key Chapter 27
 - Interactive Elements Conceptual Physics Answer Key Chapter 27
8. Staying Engaged with Conceptual Physics Answer Key Chapter 27
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Conceptual Physics Answer Key Chapter 27
9. Balancing eBooks and Physical Books Conceptual Physics Answer Key Chapter 27
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Conceptual Physics Answer Key Chapter 27
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Conceptual Physics Answer Key Chapter 27
 - Setting Reading Goals Conceptual Physics Answer Key Chapter 27
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Conceptual Physics Answer Key Chapter 27
 - Fact-Checking eBook Content of Conceptual Physics Answer Key Chapter 27
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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