Name \_\_\_\_\_ Class \_\_\_\_ Date \_\_\_\_

Chapter 15 Energy

# Section 15.2 Energy Conversion and Conservation

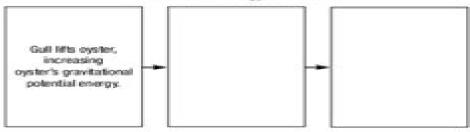
(pages 453-459)

This section describes how energy is converted from one form to another. The law of conservation of energy also is presented.

#### Reading Strategy (page 453)

Relating Cause and Effect As you read, complete the flowchart to explain an energy conversion used by some gulls to obtain food. For more information on this Reading Strategy, see the Reading and Study Skills in the Skills and Reference Handbook at the end of your textbook.





#### Energy Conversion (page 454)

- Is the following sentence true or false? Energy can be converted from one form to another.
- When a wind-up toy is set in motion, elastic potential energy that was stored in a compressed spring is converted into the \_\_\_\_\_\_ of the toy's moving parts.
- 3. Is the following sentence true or false? The action of striking a match shows that stored chemical energy in the match can be converted into thermal energy and electromagnetic energy of the flame in a single step. \_\_\_\_\_\_

#### Conservation of Energy (page 455)

- 4. What does the law of conservation of energy state? \_\_\_\_\_
- 5. Is the following sentence true or false? When an object slows down because of frictional force acting on it, an amount of energy is destroyed that is equivalent to the decrease in kinetic energy of the object.
- A moving object slows down because friction causes a continual conversion of kinetic energy into \_\_\_\_\_\_.

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**M Lipman** 

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# **Table of Contents Physical Science Chapter 1energy Wordwise Answers**

- 1. Understanding the eBook Physical Science Chapter 1 energy Wordwise Answers
  - The Rise of Digital Reading Physical Science Chapter 1energy Wordwise Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Physical Science Chapter 1energy Wordwise Answers
  - 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 Physical Science Chapter 1energy Wordwise Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Physical Science Chapter 1energy Wordwise Answers
  - Personalized Recommendations
  - Physical Science Chapter 1energy Wordwise Answers User Reviews and Ratings
  - Physical Science Chapter 1energy Wordwise Answers and Bestseller Lists

- 5. Accessing Physical Science Chapter 1energy Wordwise Answers Free and Paid eBooks
  - Physical Science Chapter 1energy Wordwise Answers Public Domain eBooks
  - Physical Science Chapter 1energy Wordwise Answers eBook Subscription Services
  - Physical Science Chapter 1energy Wordwise Answers Budget-Friendly Options
- 6. Navigating Physical Science Chapter 1 energy Wordwise Answers eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Physical Science Chapter 1energy Wordwise Answers Compatibility with Devices
  - Physical Science Chapter 1energy Wordwise Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Physical Science Chapter 1energy Wordwise Answers
  - Highlighting and Note-Taking Physical Science Chapter 1energy Wordwise Answers
  - Interactive Elements Physical Science Chapter 1energy Wordwise Answers
- 8. Staying Engaged with Physical Science Chapter 1energy Wordwise Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Physical Science Chapter 1energy Wordwise Answers
- 9. Balancing eBooks and Physical Books Physical Science Chapter 1energy Wordwise Answers
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Physical Science Chapter 1 energy Wordwise Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Chapter 1energy Wordwise Answers
  - Setting Reading Goals Physical Science Chapter 1energy Wordwise Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Chapter 1energy Wordwise Answers
  - Fact-Checking eBook Content of Physical Science Chapter 1energy Wordwise Answers
  - 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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