# CHAPTER 15 STUDY GUIDE

# **Energy and Chemical Change**

#### Section 15.1 Energy

In your textbook, read about the nature of energy.

In the space at the left, write true if the statement is true; if the statement is false, change the italicized word or phrase to make it true.

- Energy is the ability to do work or produce heat.
- The law of conservation of energy states that energy can be created and destroyed.
- Chemical potential energy is energy stored in a substance because of its composition.
- 4. Hear is a form of energy that flows from a warmer object to a cooler object.
- A calorie is the amount of energy required to raise the temperature of one gram of pure water by one degree Celsius.
- 6. A calorie is the SI unit of heat and energy.
- The specific heat of a substance is the amount of heat required to raise the temperature of one gram of that substance by one degree Celsius.
- 8. Kinetic energy is energy of motion.
- Chemicals participating in a chemical reaction contain only potential energy.
- 10. One nutritional Calorie is equal to 100 calories.
- 11. One calorie equals 4.184 joules.
- 12. When a fuel is burned, some of its chemical potential energy is lost as heat.
- To convert kilojoules to joules, divide the number of kilojoules by 1000 joules/1 kilojoule.

Answer the following question. Show all your work.

 If the temperature of a 500.0-g sample of liquid water is raised 2.00°C, how much heat is absorbed by the water? The specific heat of liquid water is 4.184 J/(g-°C).

# **Energy And Chemical Change Study Guide**

Gene Mosca, Todd Ruskell

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#### **Table of Contents Energy And Chemical Change Study Guide**

- 1. Understanding the eBook Energy And Chemical Change Study Guide
  - The Rise of Digital Reading Energy And Chemical Change Study Guide
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Energy And Chemical Change Study Guide
  - 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 Energy And Chemical Change Study Guide
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Energy And Chemical Change Study Guide
  - Personalized Recommendations
  - Energy And Chemical Change Study Guide User Reviews and Ratings
  - Energy And Chemical Change Study Guide and Bestseller Lists
- 5. Accessing Energy And Chemical Change Study Guide Free and Paid eBooks
  - Energy And Chemical Change Study Guide Public Domain eBooks
  - Energy And Chemical Change Study Guide eBook Subscription Services
  - Energy And Chemical Change Study Guide Budget-Friendly Options

- 6. Navigating Energy And Chemical Change Study Guide eBook Formats
  - o ePub, PDF, MOBI, and More
  - Energy And Chemical Change Study Guide Compatibility with Devices
  - Energy And Chemical Change Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Energy And Chemical Change Study Guide
  - Highlighting and Note-Taking Energy And Chemical Change Study Guide
  - Interactive Elements Energy And Chemical Change Study Guide
- 8. Staying Engaged with Energy And Chemical Change Study Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Energy And Chemical Change Study Guide
- 9. Balancing eBooks and Physical Books Energy And Chemical Change Study Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Energy And Chemical Change Study Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Energy And Chemical Change Study Guide
  - Setting Reading Goals Energy And Chemical Change Study Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Energy And Chemical Change Study Guide
  - Fact-Checking eBook Content of Energy And Chemical Change Study Guide
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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