# 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 graw 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.
- 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 by1000 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).

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**LP Steffe** 

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# **Table of Contents Ch 15 Study Guide Physics Answer**

- 1. Understanding the eBook Ch 15 Study Guide Physics Answer
  - The Rise of Digital Reading Ch 15 Study Guide Physics Answer
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Ch 15 Study Guide Physics Answer
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - o Features to Look for in an Ch 15 Study Guide Physics Answer
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ch 15 Study Guide Physics Answer
  - Personalized Recommendations
  - Ch 15 Study Guide Physics Answer User Reviews and Ratings
  - Ch 15 Study Guide Physics Answer and Bestseller Lists
- 5. Accessing Ch 15 Study Guide Physics Answer Free and Paid eBooks
  - Ch 15 Study Guide Physics Answer Public Domain eBooks
  - Ch 15 Study Guide Physics Answer eBook Subscription Services
  - Ch 15 Study Guide Physics Answer Budget-Friendly Options
- 6. Navigating Ch 15 Study Guide Physics Answer eBook Formats

- o ePub, PDF, MOBI, and More
- Ch 15 Study Guide Physics Answer Compatibility with Devices
- Ch 15 Study Guide Physics Answer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Ch 15 Study Guide Physics Answer
  - Highlighting and Note-Taking Ch 15 Study Guide Physics Answer
  - Interactive Elements Ch 15 Study Guide Physics Answer
- 8. Staying Engaged with Ch 15 Study Guide Physics Answer
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ch 15 Study Guide Physics Answer
- 9. Balancing eBooks and Physical Books Ch 15 Study Guide Physics Answer
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ch 15 Study Guide Physics Answer
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ch 15 Study Guide Physics Answer
  - Setting Reading Goals Ch 15 Study Guide Physics Answer
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ch 15 Study Guide Physics Answer
  - Fact-Checking eBook Content of Ch 15 Study Guide Physics Answer
  - 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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