

# 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.**

- |       |   |
|-------|---|
| _____ | 1. <i>Energy</i> is the ability to do work or produce heat.   |
| _____ | 2. The law of conservation of energy states that energy <i>can be</i> created and destroyed.  |
| _____ | 3. Chemical potential energy is energy stored in a substance because of its <i>composition</i> .  |
| _____ | 4. <i>Heat</i> is a form of energy that flows from a warmer object to a cooler object.  |
| _____ | 5. A calorie is the amount of energy required to raise the temperature of <i>one gram</i> of pure water by one degree Celsius.                          |
| _____ | 6. A <i>calorie</i> is the SI unit of heat and energy.  |
| _____ | 7. The <i>specific heat</i> of a substance is the amount of heat required to raise the temperature of one gram of that substance by one degree Celsius. |
| _____ | 8. <i>Kinetic energy</i> is energy of motion.   |
| _____ | 9. Chemicals participating in a chemical reaction contain only <i>potential energy</i> .  |
| _____ | 10. One nutritional Calorie is equal to <i>100 calories</i> .   |
| _____ | 11. One calorie equals <i>4.184 joules</i> .  |
| _____ | 12. When a fuel is burned, some of its <i>chemical potential energy</i> is lost as heat.  |
| _____ | 13. To convert kilojoules to joules, <i>divide</i> the number of kilojoules by 1000 joules/1 kilojoule.   |

**Answer the following question. Show all your work.**

14. 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 Study Guide Key

**Bruce Wingerd, Patty Bostwick Taylor**



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**Hazmat Chemistry Study Guide (Second Edition)** Jill Meryl Levy, 2011



This book delves into Energy And Chemical Study Guide Key. Energy And Chemical Study Guide Key is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Energy And Chemical Study Guide Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Energy And Chemical Study Guide Key
  - Chapter 2: Essential Elements of Energy And Chemical Study Guide Key
  - Chapter 3: Energy And Chemical Study Guide Key in Everyday Life
  - Chapter 4: Energy And Chemical Study Guide Key in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Energy And Chemical Study Guide Key. The first chapter will explore what Energy And Chemical Study Guide Key is, why Energy And Chemical Study Guide Key is vital, and how to effectively learn about Energy And Chemical Study Guide Key.
3. In chapter 2, this book will delve into the foundational concepts of Energy And Chemical Study Guide Key. This chapter will elucidate the essential principles that need to be understood to grasp Energy And Chemical Study Guide Key in its entirety.
4. In chapter 3, this book will examine the practical applications of Energy And Chemical Study Guide Key in daily life. This chapter will showcase real-world examples of how Energy And Chemical Study Guide Key can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Energy And Chemical Study Guide Key in specific contexts. The fourth chapter will explore how Energy And Chemical Study Guide Key is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Energy And Chemical Study Guide Key. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Energy And Chemical Study Guide Key.

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