

Chemistry – Unit 3 Reading Assignment

Energy and Kinetic Molecular Theory

The story behind the difficulty we have with energy is fascinating to those of us who struggle with trying to teach energy in a coherent way, but it is long and difficult - much of it would be lost on students whose goal is to get a grip on how to use energy to describe change in the world. Nonetheless, a brief bit of background might help you understand how we are going to approach the study of energy. In the 18th and 19th centuries scientists wrestled with identifying and describing the nature of the “stuff” that produced change. One concept that became popular for a while was that of “caloric” (what we now call heat).

“Caloric was originally conceived of as a quantity that would flow from a hotter object to a cooler one that would warm up as a result. It answered the need for a way for the cause of warming to get from here to there. Not only did caloric serve as a cause for warming, it was also considered to be the cause for changes of phase. Caloric enabled particles of a substance to move farther apart until the attractions of the particles for each other became too weak to hold them together. Although Lavoisier did not think that caloric necessarily was an actual substance, in its storage and transfer it was like a substance.”¹

When scientists recognized that the “stuff” involved when forces were applied to objects to lift them or change their speed was the same “stuff” that was involved when the temperature of objects changed, they worked to develop a single energy concept. So when the energy concept was developed it was important to distinguish it from caloric. In stuffing out the caloric concept, the clear picture of energy storage and transfer that it fostered was unnecessarily lost, too.”²

Even though we recognize that energy is not a physical substance, we choose to use the substance metaphor to describe it. We'll use three principles to guide us in the development of the energy concept.

1. Energy can be viewed as a substance-like quantity that can be stored in a physical system.
2. Energy can “flow” or be “transferred” from one system to another and so cause changes.
3. Energy maintains its identity after being transferred.

Unit 3 Energy Reading Study Guide Answers

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Earth's Surface: Teacher's ed ,2005 Macmillan/McGraw-Hill Math: Teacher ed., v. 1 ,2004 *SAT Success* Joan
Davenport Carris,Michael R. Crystal,1994 A guide for preparing for college entrance examinations with lessons in verbal and
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Table of Contents Unit 3 Energy Reading Study Guide Answers

1. Understanding the eBook Unit 3 Energy Reading Study Guide Answers
 - The Rise of Digital Reading Unit 3 Energy Reading Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Unit 3 Energy Reading Study Guide 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 Unit 3 Energy Reading Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Unit 3 Energy Reading Study Guide Answers
 - Personalized Recommendations

- Unit 3 Energy Reading Study Guide Answers User Reviews and Ratings
- Unit 3 Energy Reading Study Guide Answers and Bestseller Lists
- 5. Accessing Unit 3 Energy Reading Study Guide Answers Free and Paid eBooks
 - Unit 3 Energy Reading Study Guide Answers Public Domain eBooks
 - Unit 3 Energy Reading Study Guide Answers eBook Subscription Services
 - Unit 3 Energy Reading Study Guide Answers Budget-Friendly Options
- 6. Navigating Unit 3 Energy Reading Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Unit 3 Energy Reading Study Guide Answers Compatibility with Devices
 - Unit 3 Energy Reading Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Unit 3 Energy Reading Study Guide Answers
 - Highlighting and Note-Taking Unit 3 Energy Reading Study Guide Answers
 - Interactive Elements Unit 3 Energy Reading Study Guide Answers
- 8. Staying Engaged with Unit 3 Energy Reading Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Unit 3 Energy Reading Study Guide Answers
- 9. Balancing eBooks and Physical Books Unit 3 Energy Reading Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Unit 3 Energy Reading Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Unit 3 Energy Reading Study Guide Answers
 - Setting Reading Goals Unit 3 Energy Reading Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Unit 3 Energy Reading Study Guide Answers
 - Fact-Checking eBook Content of Unit 3 Energy Reading Study Guide 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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