

THERMAL ENERGY/HEAT TEST (Version A)

Use the following word bank to complete the sentences.

Word Bank

destroyed, colder, temperature, molecules, hotter, equilibrium, total kinetic energy

- Things are made of _____ (or other types of atom groups)
- When a thing gets _____, its molecules are moving faster and have more kinetic energy.
- When a thing gets _____, its molecules are moving slower and have less kinetic energy.
- _____ is a measure of the average kinetic energy of the molecules of a thing.
- Energy isn't created or _____ . Therefore, as energy transfers, it increases in one part of the system, as it decreases in another part of the system. The total energy of a system doesn't change.
- The molecules of a system will transfer energy until the system reaches a stable state known as _____, in which all of the molecules are moving at about the same speed.
- For things at the same temperature, the thing with more molecules has more _____ (thermal energy) than the thing with fewer molecules.

Complete the following multiple choice questions by circling the best answer.

- Liz cooked a pot of soup, then put half the soup in the freezer for a while. Now the soup in the pot is hot, and the soup in the freezer is cold. What is the difference between the molecules of the soup in the pot and the molecules of the soup in the freezer?
 - The molecules of the soup in the pot are moving and the molecules of the soup in the freezer are not moving.
 - The molecules of the soup in the pot are moving faster than the molecules of the soup in the freezer.
 - There is no difference because all of the soup is made of the same type of molecules.
 - The molecules of the soup in the freezer are smaller than the molecules of the soup in the pot.
- Engineers design computers to cool down quickly so they do not break. What happens to the molecules in a computer when the temperature of the **computer** decreases?
 - The energy of the molecules in the computer decreases.
 - The energy of the molecules in the computer increases.
 - The cold energy of the molecules in the computer increases.
- Joseph puts a piece of toast on a plate. The toast is hot from the toaster. When he puts the toast on the plate, the energy of the plate increases. What must be true of the energy of the toast?
 - Its energy stays the same while the energy of the plate increases.
 - Its energy decreases while the energy of the plate increases.
 - Its energy increases while the energy of the plate increases.

Gas Test Study Guide

Arturo Cuomo



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Table of Contents Gas Test Study Guide

1. Understanding the eBook Gas Test Study Guide
 - The Rise of Digital Reading Gas Test Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Gas Test 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 Gas Test Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gas Test Study Guide
 - Personalized Recommendations
 - Gas Test Study Guide User Reviews and Ratings
 - Gas Test Study Guide and Bestseller Lists
5. Accessing Gas Test Study Guide Free and Paid eBooks
 - Gas Test Study Guide Public Domain eBooks

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

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