

Name _____ Date _____ Class _____

CHAPTER 13 STUDY GUIDE FOR CONTENT MASTERY

States of Matter

Section 13.1 Gases

In your textbook, read about the kinetic molecular theory.

Complete each statement.

1. The kinetic molecular theory describes the behavior of gases in terms of particles in motion.
2. The kinetic molecular theory makes the following assumptions:
 - a. In a sample of a gas, the volume of the gas particles themselves is very small compared to the volume of the sample.
 - b. Because gas particles are far apart, there are no significant attractive or repulsive forces between gas particles.
 - c. Gas particles are in constant and random motion.
 - d. The collisions between gas particles are elastic; that is, no kinetic energy is lost.
3. The kinetic energy of a particle is represented by the equation $KE = \frac{1}{2}mv^2$.
4. Temperature is a measure of the average kinetic energy of the particles in a sample of matter.

In your textbook, read about explaining the behavior of gases.

For each statement below, write true or false.

- | | |
|--------------|--|
| <u>True</u> | 1. Gases are less dense than solids because there is a lot of space between the particles of a gas. |
| <u>True</u> | 2. The random motion of gas particles causes a gas to expand until it fills its container. |
| <u>False</u> | 3. The density of a gas decreases as it is compressed. |
| <u>True</u> | 4. A gas can flow into a space occupied by another gas. |
| <u>True</u> | 5. The diffusion of a gas is caused by the random motion of the particles of the gas. |
| <u>False</u> | 6. Lighter gas particles diffuse less rapidly than do heavier gas particles. |
| <u>True</u> | 7. During effusion, a gas escapes through a tiny opening into a vacuum. |
| <u>False</u> | 8. Graham's law of effusion states that the rate of effusion for a gas is directly related to the square root of its molar mass. |

Name _____ Date _____ Class _____

CHAPTER 13 STUDY GUIDE FOR CONTENT MASTERY

Section 13.2 continued

In your textbook, read about gas pressure.

Circle the letter of the choice that best completes the statement or answers the question.

13. Pressure is defined as force per unit c. area.
14. What is an instrument designed to measure atmospheric pressure? c. sphygmomanometer
15. The height of the liquid in a barometer is affected by all of the following EXCEPT the a. altitude.
16. The pressure of the gas in a manometer is directly related to which of the following quantities? b. height of the mercury column in the closed end arm
17. One atmosphere is equal to a pressure of b. 101.3 kPa.
18. The partial pressure of a gas depends on all of the following EXCEPT the b. size of the container.
19. The pressure of a sample of air in a manometer is 102.1 kPa. What is the partial pressure of nitrogen (N_2) in the sample if the combined partial pressures of the other gases is 22.4 kPa? b. 79.7 kPa

Use the figure to answer the following questions.

20. What instrument is illustrated in the figure? barometer
21. Who invented this instrument? Evangelista Torricelli
22. What are the two opposing forces that control the height of the mercury in the column? gravity and atmospheric pressure
23. What does it mean when the level of mercury drops in the column? The atmospheric pressure has increased.



Chemistry And Matter Study Guide Answers

Steven S. Zumdahl, Paul B. Kelter



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Study Guide and Partial Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry Susan McMurry, 1996 This internationally acclaimed detective series is just the thing for lovers of those Number One Ladies looking for a darker more realistic view of Botswana Sue Baker Publishing News

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Table of Contents Chemistry And Matter Study Guide Answers

1. Understanding the eBook Chemistry And Matter Study Guide Answers
 - The Rise of Digital Reading Chemistry And Matter Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chemistry And Matter 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 Chemistry And Matter Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chemistry And Matter Study Guide Answers
 - Personalized Recommendations
 - Chemistry And Matter Study Guide Answers User Reviews and Ratings

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