

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.

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

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79

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CHAPTER 13

STUDY GUIDE FOR CONTENT MASTERY

Section 13.1 continued

In your textbook, read about gas pressure.

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

- Pressure is defined as force per unit c. area.
 - area
 - force
 - time
 - volume
- What is an instrument designed to measure atmospheric pressure? c. barometer
 - barometer
 - manometer
 - atmospherometer
 - densitometer
- The height of the liquid in a barometer is affected by all of the following EXCEPT the a. altitude.
 - altitude
 - density of the liquid in the column
 - atmospheric pressure
 - diameter of the column tube
- The pressure of the gas in a manometer is directly related to which of the following quantities? d. h
 - height of the mercury column in the closed end arm
 - height of the mercury column in the open end arm
 - $h \times d$
 - $h \times V$
- One atmosphere is equal to a pressure of c. 101.3 kPa.
 - 76 mm Hg
 - 101.3 kPa
 - 147 psi
 - 760 mm
- The partial pressure of a gas depends on all of the following EXCEPT the b. size of the container.
 - concentration of the gas
 - size of the container
 - density of the gas
 - temperature of the gas
- The pressure of a sample of air in a manometer is 101.1 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? c. 78.7 kPa
 - 42.4 kPa
 - 78.7 kPa
 - 101.1 kPa
 - 123.5 kPa

Use the figure to answer the following questions.

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



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Study Guide For Content Mastery Section How

Zhe Xu



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Table of Contents Study Guide For Content Mastery Section How

1. Understanding the eBook Study Guide For Content Mastery Section How
 - The Rise of Digital Reading Study Guide For Content Mastery Section How
 - Advantages of eBooks Over Traditional Books
2. Identifying Study Guide For Content Mastery Section How
 - 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 Study Guide For Content Mastery Section How
 - User-Friendly Interface
4. Exploring eBook Recommendations from Study Guide For Content Mastery Section How

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

- Fact-Checking eBook Content of Study Guide For Content Mastery Section How
- 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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