

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.
 - Between gas particles and the walls, 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. |

Study Guide for Content Mastery

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Name _____ Date _____ Class _____

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
 - area
 - time
 - mass
 - volume
- What is an instrument designed to measure atmospheric pressure?
 - barometer
 - manometer
 - physoconimeter
 - densimeter
- The height of the liquid in a barometer is affected by all of the following EXCEPT the
 - 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
 - height of the mercury column in the closed-end arm
 - height of the mercury column in the open-end arm
 - $h + 760$
 - $h - 760$
- One atmosphere is equal to a pressure of
 - 76 mm Hg
 - 101.3 kPa
 - 147 psi
 - 760 mm
- The partial pressure of a gas depends on all of the following EXCEPT the
 - 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 101.3 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?
 - 42.4 kPa
 - 78.9 kPa
 - 101.3 kPa
 - 123.7 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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Chemistry Chapter 16 Study Guide For Content Mastery Answers

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Chemistry Steven S. Zumdahl, Susan A. Zumdahl, 2000 Zumdahl's conceptual approach to problem solving early and thorough treatment of reactions and integration of descriptive chemistry and chemical principles throughout are key elements to the success of this bestseller By encouraging students to understand qualitative concepts before considering quantitative problems Chemistry helps students build a solid understanding of topics and avoid common misconceptions The text also includes new Chemical Impact boxes that present everyday applications of chemistry plus over 200 redesigned illustrations with greater clarity and emphasis on molecular level illustrations **Resources in Education**, 1984

Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 **Documentation Abstracts**, 1985

Essentials of Ecology George Tyler Miller, 2006-09 G Tyler Miller's worldwide bestsellers have evolved right along with the changing needs of your diverse student population Focused specifically on energizing and engaging all your students Miller and new contributor Scott Spoolman have been at work scrutinizing every line enhancing clarifying and streamlining to reduce word density as well as updating with the very latest environmental news and research The resulting texts are shorter clearer and so engaging that your students will actually want to read their assignments The ideal alternative to ecology texts that tend to be too difficult for non majors this succinct 13 chapter full color textbook covers scientific principles and concepts ecosystems evolution biodiversity population ecology and more New to this edition for instructors is PowerLecture a one stop shop for lecture prep that includes everything you need to create dynamic lectures all in one place

Journal of the American Dietetic Association, 1988 Popular Mechanics, 2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Books in Print Supplement**, 1994 **New York State Education**, 1951 **El-Hi textbooks in print**

R. R. Bowker LLC, 1983 International Books in Print, 1987 Forthcoming Books Rose Arny, 1997-04 **Chemistry:**

Matter & Change, Study Guide For Content Mastery, Student Edition McGraw Hill, 2001-03-30 Study Guide and Reinforcement Worksheets allow for differentiated instruction through a wide range of question formats There are worksheets and study tools for each section of the text that help teachers track students progress toward understanding concepts Guided Reading Activities help students identify and comprehend the important information in each chapter

Glencoe Chemistry Glencoe/McGraw-Hill, 2002 Study Guide for Chemical Principles [by] Steven S. Zumdahl Steven S. Zumdahl, Paul B. Kelter, 1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples Student Study Guide/Solutions Manual for Essentials of General, Organic, and Biochemistry Denise Guinn, Rebecca Brewer, Rachel C. Lum, 2009-09-15 The Student Study Guide and Solutions Manual provides students with a combined manual designed to help

them avoid common mistakes and understand key concepts After a brief review of each section s critical ideas students are taken through stepped out worked examples try it yourself examples and chapter quizzes all structured to reinforce chapter objectives and build problem solving techniques The solutions manual includes detailed solutions to all odd numbered exercises in the text

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