

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 Matter Change Chapter 11 Study Guide For Content

**VM Jensen**



## **Chemistry Matter Change Chapter 11 Study Guide For Content:**

**Prentice Hall Chemistry**, 2000      Organic Chemistry Francis A. Carey, 2000 A Market Leading Traditional Approach to Organic Chemistry Throughout all seven editions Organic Chemistry has been designed to meet the needs of the mainstream two semester undergraduate organic chemistry course This best selling text gives students a solid understanding of organic chemistry by stressing how fundamental reaction mechanisms function and reactions occur With the addition of handwritten solutions new cutting edge molecular illustrations updated spectroscopy coverage seamless integration of molecular modeling exercises and state of the art multimedia tools the 7th edition of Organic Chemistry clearly offers the most up to date approach to the study of organic chemistry      *Holt Chemistry* Ralph Thomas Myers, 2004      *Organic Chemistry* T. W. Graham Solomons, Craig B. Fryhle, Scott A. Snyder, 2016-01-19 The 12th edition of Organic Chemistry continues Solomons Fryhle Snyder s tradition of excellence in teaching and preparing students for success in the organic classroom and beyond A central theme of the authors approach to organic chemistry is to emphasize the relationship between structure and reactivity To accomplish this the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms The authors philosophy is to emphasize mechanisms and their common aspects as often as possible and at the same time use the unifying features of functional groups as the basis for most chapters The structural aspects of the authors approach show students what organic chemistry is Mechanistic aspects of their approach show students how it works And wherever an opportunity arises the authors show students what it does in living systems and the physical world around us      **P.S.S.C. Physics** Physical Science Study Committee, 1961      Resources in Education, 1992 Serves as an index to Eric reports microform      **Physics** Physical Science Study Committee, 1960

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Maryland      **Willing's Press Guide** ,1996 A guide to the press of the United Kingdom and to the principal publications of Europe Australia the Far East Gulf States and the U S A      Curriculum Development Daniel Tanner,Laurel N. Tanner,1980 With its focus on the application of theory to actual classroom practice this book s treatment of the full spectrum of curriculum design and practice has set the standard for completeness for nearly two decades Part I explores the historical roots of current curriculum issues and practices emphasizing the assessment of leading efforts at reform Part II offers a critique of changing concepts of curriculum conflicting curriculum and educational rationales and influences for and against change In Part III major crosscurrents in reform and reconstruction are discussed including social crises the knowledge explosion curriculum articulation and emerging designs Part IV focuses on curriculum research and improvement paying particular attention to the roles of teachers supervisors administrators and curriculum specialists in the process

Research in Education ,1969      Science Curriculum Resource Handbook ,1992      *Assessment in the Classroom* Annie Ward,Mildred Murray-Ward,1999 This is a practically oriented text that utilizes current issues as a way to engage students and illustrate the relevance and importance of assessment This text focuses on a teacherAEs needs and on assessment solely in the classroom environment Since many assessment texts today are written by experts in statistics and cover the topic of assessment in many settings with complicated terminology the practical approach of ASSESSMENT IN THE CLASSROOM appeals to instructors who find it difficult to get their students interested in the subjects of testing and measurement The authors detail traditional testing methods as well as newer forms of alternative assessment which evaluates students on their abilities to use their knowledge in realistic situations Areas covered include the history of measurement in education basic concepts how to assess what to assess assessment procedures and external testing programs as well as how to set up and measure the latest portfolio assessment method Many sample forms and examples of various types of assessment provided

The Journal of the Chemical, Metallurgical & Mining Society of South Africa ,1926      *Biology* McGraw-Hill Staff,2001-12 Contents and Features include Review questions correlated to all objectives on the Grades 10 and 11 Science TAKS Exams Review of all biology and integrated physics and chemistry TEKS covered on TAKS Exams Full length 10th and 11th grade sample TAKS exams Answers and explanations to all questions      **American Sugar Industry** ,1926      *Scientific American* ,1905      The Christian Union ,1887      **The Athenaeum** ,1903

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