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CHAPTER 11 STUDY GUIDE FOR CONTENT MASTERY

States of Matter**Section 11.1 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:

- 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 free space, there are no significant attractive or repulsive forces between gas particles.
- The particles are in constant and random motion.
- 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 $E_k = \frac{1}{2}mv^2$.

4. Temperature is a measure of the average kinetic energy of the particles in a sample of matter.

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

For each statement below, write true or false.

True 5. Gases are free space that while because there is a lot of space between the particles of a gas.

True 6. The random motion of gas particles causes a gas to expand until it fills its container.

False 7. The density of a gas decreases as it is compressed.

True 8. If you can fit two into a space occupied by another gas.

True 9. The diffusion of a gas is caused by the random motion of the particles of the gas.

False 10. Lighter gas particles diffuse less rapidly than do heavier gas particles.

True 11. During effusion a gas escapes through a tiny opening into a vacuum.

False 12. 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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CHAPTER 11 STUDY GUIDE FOR CONTENT MASTERY

Section 11.1 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 area.

a. area. b. mass. c. time. d. volume.

14. What is an instrument designed to measure atmospheric pressure?

a. barometer. b. manometer. c. triple beam balance. d. thermometer.

15. The height of the liquid in a barometer is affected by all of the following EXCEPT the

a. altitude. b. density of the liquid in the column. c. atmospheric pressure. d. diameter of the column tube.

16. The pressure of the gas in a container is directly related to which of the following quantities?

a. height of the mercury column in the closed end arm. b. height of the mercury column in the open end arm. c. $P = \rho gh$. d. $P = \frac{F}{A}$.

17. One atmosphere is equal to a pressure of

a. 76 mm Hg. b. 101.3 kPa. c. 147 psi. d. 760 mm.

18. The partial pressure of a gas depends on all of the following EXCEPT the

a. concentration of the gas. b. size of the container. c. density of the gas. d. temperature of the gas.

19. The pressure of a sample of air in a container 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?

a. 78.9 kPa. b. 78.9 kPa. c. 101.3 kPa. d. 123.7 kPa.

Use the figure to answer the following questions.

20. What instrument is illustrated in the figure? Barometer

21. Why is called the instrument? Atmospheric barometer

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 rises in the column? The atmospheric pressure has increased.



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VM Jensen

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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

What's Hot in Literacy Evan Ortlieb,Stephanie Grote-Garcia,Jack Cassidy,Earl H. Cheek Jr,2020-09-30 This book showcases hot topics in literacy providing teachers with practices for literacy improvement The international scholars which comprise the author line up for this edited collection describe the evidence based research findings from their research in K 12 schools to demonstrate how literacy success is fostered across the globe **Spectroscopic Methods in Mineralogy and Geology** Frank C. Hawthorne,2018-12-17 Volume 18 of Reviews in Mineralogy provides a general introduction to the use of spectroscopic techniques in Earth Sciences It gives an Introduction To Spectroscopic Methods and covers Symmetry Group Theory And Quantum Mechanics Spectrum Fitting Methods Infrared And Raman Spectroscopy Inelastic Neutron Scattering Vibrational Spectroscopy Of Hydrous Components Optical Spectroscopy Mossbauer Spectroscopy MAS NMR Spectroscopy Of Minerals And Glasses NMR Spectroscopy And Dynamic Processes In Mineralogy And Geochemistry X Ray Absorption Spectroscopy Applications In Mineralogy and Geochemistry Electron Paramagnetic Resonance Auger Electron And X Ray Photoelectron Spectroscopies and Luminescence X Ray Emission and New Spectroscopies The authors of this volume presented a short course entitled Spectroscopic Methods in Mineralogy and Geology May 13 15 1988 in Hunt Valley

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 Feautures 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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In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Chemistry Matter Change Chapter 11 Study Guide For Content**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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