

MODULE C: SOLIDS, LIQUIDS & GASES

Kinetic Molecular Theory & Phases of Matter

- The different phases of matter can be described based on the Kinetic Molecular Theory

a) According to kinetic theory, an increase in temperature will cause the average kinetic energy of the particles in the solid, liquid, and gas to increase.

↑ temperature ↑ average kinetic energy

b) When a solid is heated, the temperature is raised and the solid changes to a liquid at its melting point. If the heating is continued, the liquid will change into a gas at its boiling point.

c) The heat energy is changed into the equivalent amount of kinetic energy. Thus, the kinetic energy content of the particles increases in the order:

solid < liquid < gas

- Kinetic Molecular Theory

- 1) Matter is made up of particles
- 2) The particles are always moving

- Kinetic energy

→ energy of movement

- Kinetic Molecular Theory for Gases

a) A gas consists of small particles (atoms or molecules) which have negligible volume (V of gas molecule ≈ 0). This implies that:

$$V_{\text{container}} = V_{\text{molecules}} + V_{\text{free space}} \approx V_{\text{free space}}$$

and that there is plenty of space for compression.

b) Gas particles are separated relatively far from one another.

c) Gas particles behave independently from one another. Thus, inter-particle forces of attraction are negligible.

d) The gas particles are in rapid and continuous motion.

e) In the gaseous state, the gas particles have vibrational, rotational, and translational motion.

1) Vibrational motion - a particle vibrates about a fixed point

2) Rotational motion - a particle spins about a fixed point

3) Translational motion - a particle moves from one place to another

f) Pressure of a gas comes from molecules colliding with the walls of the container.

Such collisions are perfectly elastic.

g) Average kinetic energy depends only on the absolute temperature in Kelvin (K)

$$\text{Average Kinetic Energy} = \frac{3}{2} RT, \quad R \rightarrow \text{gas law constant } (0.08206 \frac{\text{L-atm}}{\text{K-mol}})$$

T → temperature (in Kelvin)

Chapter Review Part B Concept Answers

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Cliffsnotes Tasc Test Assessing Secondary Completion(tm) Cram Plan Tim Collins, Timothy G. Collins, 2015
CliffsNotes TASC Cram Plan provides calendarized test prep for the TASC which is a high school graduation equivalency test similar to the GED

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Research Handbook on International Procedural Law Joanna Gomula, Stephan Wittich, Markus Stemeseder, 2024-06-05 This comprehensive Research Handbook provides a detailed exploration of the principles and rules that impact the procedures and operation of international courts and tribunals Within this framework leading experts examine how the evolution of procedural rules and concepts has given rise to a distinct body of rules known as international procedural law

Glencoe Science McGraw-Hill Staff, 2001-08

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Appendix D show examples similar to the EHRs you will encounter in the workplace NEW Updated content includes the latest coding information available promoting accurate coding and success on the job NEW Additional exercise questions covering the Official Guidelines for Coding and Reporting Glencoe Sci Earth Science Chapter 21 Our Impact on Water and Air Chp Res 519 02 McGraw-Hill Staff,2001-08 Algebra and Trigonometry Dennis Zill,Jacqueline Dewar,2010-12 Written for a one or two term course at the freshman sophomore level the third edition covers the principles of college algebra trigonometry and analytic geometry in the concise and student friendly style that have made Zill s texts a world wide success It includes all of the trademark features for which Zill is known including lucid examples and problem sets a rich pedagogy a complete teaching and learning ancillary package and much more Throughout the text readers will find a wide range of word problems and relevant applications historical accounts of famous mathematicians and a strong variety of modern exercises

Glencoe Sci Earth Science Chapter 14 Geologic Time Chp Res 513 2002 McGraw-Hill Staff,2001-08 **College Algebra** Dennis Zill,Jacqueline Dewar,2010-12-16 With an emphasis on problem solving and packed with engaging student friendly exercise sets and examples the Third Edition of Zill and Dewar s College Algebra is the perfect text for the traditional college algebra course Zill s renowned pedagogy and accessible straightforward writing style urges students to delve into the content and experience the mathematics first hand through numerous problem sets These problem sets give students the opportunity to test their comprehension challenge their understanding and apply their knowledge to real world situations A robust collection of student and instructor ancillaries include WebAssign access PowerPoint Lecture Slides Test Bank Student Resource Manual and more Basic Concepts of Chemistry, Study Guide Leo J. Malone,2000 The text s three main goals are to introduce chemistry as a living relevant science to encourage learning and critical thinking and to help readers overcome the math difficulties that impede their progress in chemistry Designed to help readers master the principles of general chemistry As a prep book it promotes active involvement with the material There are special features throughout that reinforce concepts and help to develop strong problem solving and study skills Updated to Include an Interactive Learning Ware problems CD containing several of the chapter ending problems from the book in an interactive tutorial with feedback to help readers set up and solve problems *The School Review* ,1921 **Concepts and Challenges in Science New York Proficiency Review Book** Globe Fearon,2000-11 **The Volta Review** ,1913 **Understanding Basic Statistics** Charles Henry Brase,Corrinne Pellillo Brase,2001 Designed specifically to present the core topics offered in a one semester statistics course without overwhelming introductory students Understanding Basic Statistics 2 e includes material on descriptive statistics probability estimation and hypothesis testing with clear early coverage of linear regression Carefully chosen problems throughout the text drawn from a variety of disciplines and labeled for easy access enable students to use real data to draw conclusions and interpret results Working through high interest relevant exercises students are encouraged to apply their knowledge and to see how statistics affects their daily lives The authors carefully guide students

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