

Name _____ Date _____ Class _____

CHAPTER 15 STUDY GUIDE FOR CONTENT MASTERY

Solutions

Section 15.1 What are solutions?

In your textbook, read about the characteristics of solutions.

Use each of the terms below just once to complete the passage.

immiscible	liquid	soluble	solution
insoluble	miscible	solvent	solvent

Air is air! (1) solution of oxygen gas dissolved in nitrogen gas. The oxygen in air is the (2) solute and nitrogen is the (3) solvent. Because oxygen gas dissolves in a solvent, oxygen gas is air! (4) soluble substances. A substance that does not dissolve is (5) insoluble. (6) liquid solutions are the most common type of solutions. If one liquid is soluble in another liquid, such as acetic acid in water, the two liquids are (7) miscible. However, if one liquid is insoluble in another, the liquids are (8) immiscible.

Read about solvation in aqueous solutions in your textbook.

The diagram shows the hydration of solid sodium chloride to form an aqueous solution. Use the diagram to answer the following questions.



8. Hydration is solvation in which the solvent is water. What is solvation?

Solution is the process of surrounding solute particles with solvent particles to form a solution.

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Section 15.1 continued

10. As sodium chloride dissolves in water, what happens to the sodium and chloride ions?

The sodium and chloride ions are separated and surrounded by the water molecules.

11. Explain the orientation of the water molecules around the sodium ions and chloride ions.

Because the sodium ion is positively charged, it attracts the negatively charged portion of the water molecule (the oxygen atom) and repels the positively charged portion of the water molecule (the hydrogen atoms). Because the chloride ion is negatively charged, it attracts the positively charged portion of the water molecule and repels the negatively charged portion.

12. How does the strength of the attraction between water molecules and sodium and chloride ions compare with the strength of the attraction between the sodium ions and chloride ions? How do you know?

The attraction between the water molecules and the sodium and chloride ions is greater than the attraction between the sodium and chloride ions. The greater strength of attraction between the water molecules and the ions is what causes the solvation process to occur.

13. List three ways that the rate of solvation may be increased.

stirring or shaking the solution, breaking the solute into smaller pieces, and heating the solvent

In your textbook, read about heat of solution, solubility, and factors that affect solubility.

For each statement below, write true or false.

True _____ 14. The overall energy change that occurs when a solution forms is called the heat of solution.

False _____ 15. Solubility is a measure of the maximum amount of solute that dissolves in a given amount of solvent at a specified temperature and pressure.

False _____ 16. Solvation continues as long as the solvation rate is less than the crystallization rate.

True _____ 17. In a saturated solution, solvation and crystallization are in equilibrium.

True _____ 18. Additional solute can be dissolved in an unsaturated solution.

True _____ 19. The solubility of a gas dissolved in a liquid decreases as the temperature of the solution increases.

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Chapter Study Guide For Content Mastery Answer Key Chemistry

Yan Bai



Chapter Study Guide For Content Mastery Answer Key Chemistry:

Excel Science Study Guide, Years 9-10 Will Marchmont, 2004 The book contains coverage of five major topic areas in the NSW School Certificate test Energy Force and Motion Atoms Elements and Compounds Structure and Function of Living Things Earth and Space Ecosystems Resources and Technology a chapter on Investigations and Problem Solving in Science to help with practical skills revision questions and chapter tests to help you remember important information a glossary and summary in each section of the book diagrams and illustrations to help your understanding a section to help you prepare for the School Certificate test a sample School Certificate test paper with answers answers to all questions Organic

Chemistry Marye Anne Fox, James K. Whitesell, 2004 Accompanying CD ROM has been enhanced with updated animated illustrations to accompany the presentations and Chem3D files for helpful structure visualization Page 4 of cover 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

Prentice Hall Chemistry, 2000 **Glencoe Chemistry** Glencoe/McGraw-Hill, 2002 *Understanding Organic Chemistry* Margot K. Schumm, 1987 **Saunders Interactive General Chemistry CD-ROM** Mary L Kotz, John C. Kotz, William J. Vining, Justin T. Fermann, 1998-11 Resources in Education, 1994 *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 Science Spectrum Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2003-03

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J. Jacobson,1959 School ,1928 **Proceedings of Annual Meeting** California High School Teachers' Association,1919
Laboratory Procedures for the Medical Office Tom Palko,Hilda Palko,1995 **Science Books & Films** ,1989
Carolina Science and Math Carolina Biological Supply Company,2003 **Essentials of Ecology** George Tyler
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Chapter Study Guide For Content Mastery Answer Key Chemistry Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Chapter Study Guide For Content Mastery Answer Key Chemistry**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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