

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   | solution |
| insoluble  | miscible | soluble  |
|            |          | 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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## CHAPTER 15 STUDY GUIDE FOR CONTENT MASTERY

#### 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 attraction 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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# Answer Key Chapter 22 Chemistry Study Guide For Content Mastery

**Steven S. Zumdahl, Susan A. Zumdahl**



## **Answer Key Chapter 22 Chemistry Study Guide For Content Mastery:**

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**Fundamentals of Biochemistry** Donald Voet, Judith G. Voet, Charlotte W. Pratt, 2016-02-29 Voet Voet and Pratt's Fundamentals of Biochemistry 5th Edition addresses the enormous advances in biochemistry particularly in the areas of structural biology and Bioinformatics by providing a solid biochemical foundation that is rooted in chemistry to prepare students for the scientific challenges of the future While continuing in its tradition of presenting complete and balanced coverage that is clearly written and relevant to human health and disease Fundamentals of Biochemistry 5e includes new pedagogy and enhanced visuals that provide a pathway for student learning **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 OAT 2017-2018 Strategies, Practice & Review with 2 Practice Tests Kaplan Test

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