

Name Erica Harris 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.

<del>immiscible</del>	<del>liquid</del>	<del>soluble</del>	<del>solution</del>
<del>insoluble</del>	<del>miscible</del>	<del>solute</del>	<del>solvent</del>

Air is a(n) (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 a(n) (4) soluble substance. 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.

9. Hydration is solvation in which the solvent is water. What is solvation?  
The process of surrounding solute particles with solvent particles to form a solution called solvation.

*Handwritten notes:*  
 Soluble - describes a substance that can be dissolved in a given solvent.  
 Solvent - substance that dissolves a solute to form a solution.  
 Solute - substance that dissolves in a solution.  
 Solution - uniform mixture that may contain solid, liquids or gases (homogeneous mixture).

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### **Baylor, Scott / Chemistry: Matter and Change**

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### **Matter—Properties and ChangesMatter—Properties and Changes**

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### **CHAPTER 1 Matter and Change - somersetcentral.enschool.org**

Chapter 1: Introduction to Chemistry. Jennie L. Borders. Section 1.1 - Chemistry. Matter is anything that has mass and occupies space. Chemistry is the study of the composition of matter and the changes that matter undergoes. Branches of Chemistry. Five traditional areas of study are organic chemistry, inorganic chemistry, biochemistry, analytical chemistry, and physical chemistry. Organic ...

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