

Solutions

Introduction to Vocabulary

<u>Item #</u>	<u>Answer</u>	<u>Term</u>	<u>Definition</u>
1.		Solution	a. Capable of being dissolved
2.		Solute	b. Solution with water as the solvent
3.		Solvent	c. Substance that dissolves in water that forms a solution that can conduct electric current
4.		Soluble	d. Solid solution that contains two or more metals
5.		Alloy	e. Homogeneous mixture that contains two or more substances in a single physical state.
6.		Aqueous	f. Substance that is dissolved in a solution
7.		Electrolyte	g. Substance that does the dissolving in a solution

Use the word bank to answer items 8 - 13

<u>Word Bank</u>
Concentration
Dilute
Saturated
Unsaturated
Supersaturated

8. A _____ solution contains as much solute as can possible be dissolved under existing conditions of temperature and pressure.

9. The amount of solute in a given amount of solvent or solution is the _____.

10. A solution that contains more solute particles than are needed to form a saturated solution is _____.

11. A solution that has a low percentage of solute compared to the amount of solvent is said to be _____.

12. A solution that has less than the maximum amount of solute that can be dissolved is called _____.

13. A powdered drink mix dissolves completely and forms a solution when added to water. What will be the appearance of the solution? (**circle the correct representation below**)



14. Dentists use mixtures of liquid mercury (Hg) and solid silver (Ag) for fillings in teeth. A typical composition is 4.0 grams mercury and 50.0 grams of silver. The mercury would be called the _____.

15. You can speed up the dissolving process (rate of dissolution) by doing various things to the solution. Identify 3 ways you could speed up the rate of dissolution.

- 1.
- 2.
- 3.