Name Date Class

SECTION 1 Reinforcement

How Solutions Form

Directions: *Complete the table below by writing the missing information in the appropriate box. Then answer the question below.*

Solution Type	Solvent	Solute	Example
1. gas		gas	
2.		solid	salt water
3. solid			dental amalgam
4.	liquid		club soda
5.	liquid	liquid	
6.	solid		brass

7. Study the information in your table carefully. What do you notice about the state of the solvent and the type of solution produced?

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Directions: *Circle the term in parentheses that makes each statement true.*

8. When a solid is being dissolved in a liquid, stirring (speeds up, slows down) the dissolving process.
9. A gas dissolves faster in a liquid if the temperature of the liquid is (increased, decreased).
10. A gas's solubility is faster in a liquid when under (high, low) pressure.
11. By stirring a gas in a liquid, its solubility (speeds up, slows down) the dissolving process.
12. A solid dissolves faster in a liquid if the temperature of the liquid is (increased, decreased).
13. The (larger, smaller) the surface area of a solid, the faster it will dissolve.

Directions: *Study your responses to the exercise above. Use your responses to answer the following question.*

14. How do the methods of speeding the rate of solution for dissolving a solid in a liquid compare to the methods of speeding the rate of solution when dissolving a gas in a liquid?

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