How Solutions Form

Solution type	Solvent	Solute	Example
1. gas		gas	
2.		solid	salt water
3. solid			18 karat gold
4.	liquid		club soda
5.	liquid	liquid	
6.	solid		brass

7. Study the information in your table carefully. What is true about the state of the solvent and the type of solution produced?

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.

14. Look at your answers above compare what helps dissolving a GAS in a LIQUID with what help a SOLID in a LIQUID dissolve.

	Gas in a Liquid (helps, hurts, no effect)	Solid in a liquid (helps, hurts, no effect)
Stirring		
Increase Temperature		
Decrease Temperature		
Increase Pressure		