**Solubility** Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Concentration** – the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dissolved in a given amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. For a solid dissolved in a liquid, the concentration of the solution is often measured in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (g/mL) or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (g/L).

**Dilute Solution** – a solution with a \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of solute

**Concentrated Solution** – a solution with a \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of solute

**Unsaturated Solution** – a solution that still has some \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ left between the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ particles. More \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ could be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Saturated Solution** – a solution in which all of the spaces between the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ particles are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can be dissolved under the set conditions.

Supersaturated solution – the solution holds \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ than a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ solution. A supersaturated solution is made under special conditions.

***How do Temperature and Pressure Affect Solubility?***

**Solid Dissolved in a Liquid**

**Temperature**

Usually, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the temperature \_\_\_\_\_\_\_\_\_\_\_\_\_ the solubility

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***Gas Dissolved in a Liquid***

**Temperature**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the temperature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the solubility of a gas.

**Pressure**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the pressure \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the solubility of a gas. Think of carbon dioxide in a can of pop.

***How can you Increase the Speed of Dissolving***

Ways to make a solid solute dissolve faster in a liquid:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the solid into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_