



Name: _____

Date: _____

Student Exploration: Solubility and Temperature

Vocabulary: concentration, dissolve, homogeneous mixture, solubility, solubility curve, solute, solution, solvent

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What happens when you stir a spoonful of sugar into hot water? _____
sugar melts in water

2. When sugar or another substance is **dissolved** in water, it disappears from view and forms a **homogeneous mixture** with the water, also called a **solution**.

If you can't see the sugar, how can you tell that it is there? _____
you can know by taste or boil the water then you can see the substance

3. Does sugar dissolve more easily in hot water or cold water? hot water

Gizmo Warm-up

A solution generally consists of two parts, a **solute** that is dissolved and a **solvent** that the solute is dissolved into. For example, sugar is a solute that is dissolved into the solvent water. In the *Solubility and Temperature* Gizmo, you will study how temperature affects how much solute will dissolve in a solution.

To begin, check that **Potassium nitrate** is selected and the **Temp.** of the water is 20 °C. Click **OK**.



1. In this solution, what is the solute? potassium nitrate What is the solvent? water

2. Click **Add 10 g** to mix 10 g of potassium nitrate into the water.

- A. Did all of the potassium nitrate dissolve? yes
- B. How can you tell? all potassium nitrate melted in the water



Answer Key For Solubility Temperature Gizmo

Jin-Ying Zhang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answer Key For Solubility Temperature Gizmo:

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