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## Student Exploration: Solubility and Temperature

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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?

If you stir a spoonful of sugar into hot water, the sugar will dissolve in the hot 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?

If you taste it, it tastes sweet.

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

It dissolves more easily in 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?

I can tell because there is no sign of potassium nitrate because the water is clear.

# Gizmo Answers For Solubility And Temperature

**AW Chickering**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'AW Chickering' text.

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