### Gizmos are in Classlink

# 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.)

- 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
- 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.

Does sugar dissolve more easily in hot water or cold water? \_ It dissolves more easily in hot

### 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 q to mix 10 q of potassium nitrate into the water.
  - A. Did all of the potassium nitrate dissolve? Yes



# **Answers For Student Exploration Solubility And Temperature**

**Michael Seilmaier** 

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