



## 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. 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?

The water tastes sweet

2. 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 of the potassium nitrate disappeared as it was stirred into the water

**Activity A:**  
**Solubility**

### Get the Gizmo ready:

- Click **Reset**.
- Check that the **Temp.** is 20 °C and that **Potassium nitrate** is selected.



# Student Exploration Solubility And Temperature Gizmo Answers

**Wolfgang Guggemos**

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

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