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Cool! I'am really happy

#Markus Jensen



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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Exploring

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Student Exploration: Solubility and Temperature**

**Key Terms:** 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? \_\_\_\_\_
2. When sugar or another substance is **added** 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? \_\_\_\_\_
3. Does sugar dissolve more easily in hot water or cold 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? \_\_\_\_\_ What is the solvent? \_\_\_\_\_
2. Click **Add 10 g** to mix 10 g of potassium nitrate into the water.
  - A. Did all of the potassium nitrate dissolve? \_\_\_\_\_
  - B. How can you tell? \_\_\_\_\_

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**Gizmo Solubility And Temperature Answers**