

Solubility and Temperature

Answer Key

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

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

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

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

The sugar dissolves into the 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?

The water tastes sweet and may appear slightly cloudy. [You can boil or evaporate the water to see solid sugar again.]

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

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Xiang Xie



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