



Name: Gamet Lee

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Make a copy of this to your Google drive. Click on the Gizmo icon in Classlink, select the Solubility and Temperature Gizmo, and complete the following. Take a screenshot of your quiz results and attach to the bottom of this page.

Student Exploration: Solubility and Temperature

50 points

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?

The sugar will dissolve

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 color of the water changes and it will taste different

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

sugar 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.

Explore Learning Gizmo Solubility And Temperature Teacher Guide

Lauren Gardner



Explore Learning Gizmo Solubility And Temperature Techer Guide:

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