



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

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

## 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.)

1. What happens when you stir a spoonful of sugar into hot water? \_\_\_\_\_  
sugar melts in 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? \_\_\_\_\_  
you can know by taste or boil the water then you can see the substance
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 potassium nitrate melted in the water



# Gizmo Solubility Temperature Answer Key

**Wolfgang Guggemos**

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

## **Gizmo Solubility Temperature Answer Key:**

## Enjoying the Track of Appearance: An Psychological Symphony within **Gizmo Solubility Temperature Answer Key**

In some sort of eaten by screens and the ceaseless chatter of immediate conversation, the melodic beauty and psychological symphony produced by the published word frequently diminish in to the backdrop, eclipsed by the constant noise and interruptions that permeate our lives. But, located within the pages of **Gizmo Solubility Temperature Answer Key** an enchanting fictional prize brimming with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, this fascinating masterpiece conducts readers on a mental trip, well unraveling the hidden tunes and profound affect resonating within each cautiously crafted phrase. Within the depths of this moving assessment, we can discover the book is central harmonies, analyze their enthralling publishing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

<https://staging.conocer.cide.edu/results/browse/default.aspx/fundamentals%20of%20salesmanship.pdf>

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