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## 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. What happens when you stir a spoonful of sugar into hot water?  
If you stir a spoonful of sugar into hot water, the sugar will dissolve in the hot 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?

If you taste it, it tastes sweet.

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

It 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.

- A. Did all of the potassium nitrate dissolve?
- B. How can you tell?

Yes.

I can tell because there is no sign of potassium nitrate because the water is clear.

# Gizmo Solubility And Temperature Answer Key

**M Woodhall**

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.

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## **Table of Contents Gizmo Solubility And Temperature Answer Key**

1. Understanding the eBook Gizmo Solubility And Temperature Answer Key
  - The Rise of Digital Reading Gizmo Solubility And Temperature Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Gizmo Solubility And Temperature Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Gizmo Solubility And Temperature Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmo Solubility And Temperature Answer Key

- Personalized Recommendations
  - Gizmo Solubility And Temperature Answer Key User Reviews and Ratings
  - Gizmo Solubility And Temperature Answer Key and Bestseller Lists
5. Accessing Gizmo Solubility And Temperature Answer Key Free and Paid eBooks
    - Gizmo Solubility And Temperature Answer Key Public Domain eBooks
    - Gizmo Solubility And Temperature Answer Key eBook Subscription Services
    - Gizmo Solubility And Temperature Answer Key Budget-Friendly Options
  6. Navigating Gizmo Solubility And Temperature Answer Key eBook Formats
    - ePub, PDF, MOBI, and More
    - Gizmo Solubility And Temperature Answer Key Compatibility with Devices
    - Gizmo Solubility And Temperature Answer Key Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Gizmo Solubility And Temperature Answer Key
    - Highlighting and Note-Taking Gizmo Solubility And Temperature Answer Key
    - Interactive Elements Gizmo Solubility And Temperature Answer Key
  8. Staying Engaged with Gizmo Solubility And Temperature Answer Key
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Gizmo Solubility And Temperature Answer Key
  9. Balancing eBooks and Physical Books Gizmo Solubility And Temperature Answer Key
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Gizmo Solubility And Temperature Answer Key
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Gizmo Solubility And Temperature Answer Key
    - Setting Reading Goals Gizmo Solubility And Temperature Answer Key
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Gizmo Solubility And Temperature Answer Key

- Fact-Checking eBook Content of Gizmo Solubility And Temperature Answer Key
- Distinguishing Credible Sources

### **13. Promoting Lifelong Learning**

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

### **14. Embracing eBook Trends**

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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