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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?

Yes.

B. How can you tell?

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

Solubility And Temperature Gizmo Answers

Christina Vogelpohl

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 Soulubility And Temperature Gizmo Answers

1. Understanding the eBook Soulubility And Temperature Gizmo Answers
 - The Rise of Digital Reading Soulubility And Temperature Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Soulubility And Temperature Gizmo Answers
 - 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 Soulubility And Temperature Gizmo Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Soulubility And Temperature Gizmo Answers
 - Personalized Recommendations
 - Soulubility And Temperature Gizmo Answers User Reviews and Ratings
 - Soulubility And Temperature Gizmo Answers and Bestseller Lists

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