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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.

Gizmo Answer Key Solubility And Temperature

S Ben Porath

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 Answer Key Solubility And Temperature:

This book delves into Gizmo Answer Key Solubility And Temperature. Gizmo Answer Key Solubility And Temperature is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Gizmo Answer Key Solubility And Temperature, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Gizmo Answer Key Solubility And Temperature
- Chapter 2: Essential Elements of Gizmo Answer Key Solubility And Temperature
- Chapter 3: Gizmo Answer Key Solubility And Temperature in Everyday Life
- Chapter 4: Gizmo Answer Key Solubility And Temperature in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Gizmo Answer Key Solubility And Temperature. This chapter will explore what Gizmo Answer Key Solubility And Temperature is, why Gizmo Answer Key Solubility And Temperature is vital, and how to effectively learn about Gizmo Answer Key Solubility And Temperature.

3. In chapter 2, the author will delve into the foundational concepts of Gizmo Answer Key Solubility And Temperature. The second chapter will elucidate the essential principles that need to be understood to grasp Gizmo Answer Key Solubility And Temperature in its entirety.

4. In chapter 3, the author will examine the practical applications of Gizmo Answer Key Solubility And Temperature in daily life. This chapter will showcase real-world examples of how Gizmo Answer Key Solubility And Temperature can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Gizmo Answer Key Solubility And Temperature in specific contexts. The fourth chapter will explore how Gizmo Answer Key Solubility And Temperature is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, this book will draw a conclusion about Gizmo Answer Key Solubility And Temperature. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Gizmo Answer Key Solubility And Temperature.

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Gizmo Answer Key Solubility And Temperature Introduction

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