

Solubility and Temperature

Answer Key

Vocabulary: concentration, dissolve, homogeneous mixture, solubility, solubility curve, solute, solution, solvent

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

1. What happens when you stir a spoonful of sugar into hot water?

The sugar dissolves into the 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?

The water tastes sweet and may appear slightly cloudy. [You can boil or evaporate the water to see solid sugar again.]

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 of the potassium nitrate disappeared as it was stirred into the water.

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AW Chickering



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Table of Contents Student Explorartion Solubility And Temperature Answer Key

1. Understanding the eBook Student Explorartion Solubility And Temperature Answer Key
 - The Rise of Digital Reading Student Explorartion Solubility And Temperature Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Explorartion 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 a Student Explorartion Solubility And Temperature Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Explorartion Solubility And Temperature Answer Key
 - Personalized Recommendations
 - Student Explorartion Solubility And Temperature Answer Key User Reviews and Ratings

Student Explorartion Solubility And Temperature Answer Key

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