



Gizmos are in Classlink.

## 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?  
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 \_\_\_\_\_



## Soulubility And Temperature Gizmo Answers

**E Staff**

## **Soulubility And Temperature Gizmo Answers:**

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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

- eBook, 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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