

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**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'E Staff' text.

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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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