Understanding Mixtures and Solutions

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Review of The Dissolving Act

Name: _____ Date: _____

Answer the following questions based on what you've learned about dissolving substances.

1. What is one factor that affects how quickly a substance dissolves?

- **A.** Temperature
- **B.** Color
- **C.** Shape

2. Explain how stirring can affect the dissolving process. Provide an example from your experiment.

3. Smaller particle size allows substances to dissolve ___ in water.

4. All substances will dissolve in water.

◯ True ◯ False

5. What happens to salt when added to cold water compared to warm water?

- **A.** It dissolves faster in cold water
- **B.** It dissolves faster in warm water
- **C.** It does not dissolve at all

6. What was the most surprising thing you learned during the Dissolving Detective Lab?

7. Wisdom and knowledge, like dissolving substances, can transform our ___ and understanding.

8. Warm water helps substances dissolve faster than cold water.

◯ True ◯ False

9. Which of the following is NOT a factor that affects dissolving?

- **A.** Stirring
- **B.** Particle size
- **C.** Color

10. How can scientific curiosity help us better understand God's creation?

Answer Key

1. Temperature 2. Stirring helps distribute the particles in the water, allowing them to interact more with the solvent. For example, when I stirred the sugar in water, it dissolved faster than when I left it still. 3. faster 4. False 5. It dissolves faster in warm water 6. I was surprised to find out that not all substances dissolve in water and that the temperature really made a difference in how quickly they

dissolved. 7. hearts 8. True 9. Color 10. Scientific curiosity leads us to explore and ask questions about the world around us, helping us appreciate the complexity and beauty of God's design in nature.