

CER Practice

CER Practice 1

Question: Does a chemical change occur if you mix sodium chloride solution and sucrose solution?

Materials:

- sodium chloride solution (5 g of sodium chloride dissolved in 50 ml of water)
- sucrose solution (5 g of glucose dissolved in 50 ml of water)
- graduated cylinder
- balance
- clear glass beaker
- stirring rod
- thermometer
- red food coloring
- blue food coloring

Procedure:

1. Place 5 g of sodium chloride into 50 ml of water and stir until it is dissolved.
2. Add red food coloring.
3. Place 5 g of sucrose into 50 ml of water and stir until it is dissolved.
4. Add blue food coloring.
5. Place a thermometer in the sodium chloride solution.
6. Pour the glucose solution into the sodium chloride solution.
7. Record your observations and the temperature.

Data/Observations:

	Reactants		Products
	sodium chloride solution	sucrose solution	sodium chloride solution with sucrose solution
			clear, transparent
			ETC
			purple
			liquid

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CER Practice 2

Question: Does a chemical change occur if you mix magnesium sulfate and sodium carbonate?

Materials:

- magnesium sulfate solution (10 g of magnesium sulfate dissolved in 100 ml of water)
- sodium carbonate solution (5 g of sodium carbonate dissolved in 50 ml of water)
- test tube
- two droppers
- graduated cylinder
- balance
- clear plastic cup
- stirring rod
- thermometer

Procedure:

1. Place 10 g of magnesium sulfate into 100 ml of water and stir until it is dissolved.
2. Place 5 g of sodium carbonate into 50 ml of water and stir until it is dissolved.
3. Place a thermometer into the magnesium sulfate solution and record the starting temperature.
4. Place the sodium carbonate solution into the magnesium sulfate solution.
5. Record your observations and the temperature.

Data/Observations:

Appearance
Temperature
Color
State of Matter
Other

✓ **State your Claim**

✓ **Back up with Evidence**

✓ **Support with Reasoning**

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1. Understanding the eBook Pkg Acp Cer Chemistry 155
 - The Rise of Digital Reading Pkg Acp Cer Chemistry 155
 - Advantages of eBooks Over Traditional Books
2. Identifying Pkg Acp Cer Chemistry 155
 - 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 Pkg Acp Cer Chemistry 155
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pkg Acp Cer Chemistry 155
 - Personalized Recommendations
 - Pkg Acp Cer Chemistry 155 User Reviews and Ratings
 - Pkg Acp Cer Chemistry 155 and Bestseller Lists
5. Accessing Pkg Acp Cer Chemistry 155 Free and Paid eBooks

- Pkg Acp Cer Chemistry 155 Public Domain eBooks
- Pkg Acp Cer Chemistry 155 eBook Subscription Services
- Pkg Acp Cer Chemistry 155 Budget-Friendly Options
- 6. Navigating Pkg Acp Cer Chemistry 155 eBook Formats
 - ePub, PDF, MOBI, and More
 - Pkg Acp Cer Chemistry 155 Compatibility with Devices
 - Pkg Acp Cer Chemistry 155 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pkg Acp Cer Chemistry 155
 - Highlighting and Note-Taking Pkg Acp Cer Chemistry 155
 - Interactive Elements Pkg Acp Cer Chemistry 155
- 8. Staying Engaged with Pkg Acp Cer Chemistry 155
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pkg Acp Cer Chemistry 155
- 9. Balancing eBooks and Physical Books Pkg Acp Cer Chemistry 155
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pkg Acp Cer Chemistry 155
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pkg Acp Cer Chemistry 155
 - Setting Reading Goals Pkg Acp Cer Chemistry 155
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pkg Acp Cer Chemistry 155
 - Fact-Checking eBook Content of Pkg Acp Cer Chemistry 155
 - 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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