

Science Review: Reversible Changes

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Understanding Physical Changes in Matter

Name: _____

Date: _____

Answer the following questions based on what you've learned about reversible changes in matter.

1. What is a reversible change?

- A. A change that cannot be undone
- B. A change that returns matter to its original form
- C. A change that happens quickly

2. Why might some physical changes not be reversible? Provide an example.

3. Ice melting is an example of a ___ change.

4. All physical changes can be undone.

- True False

5. Which of the following is an example of a reversible change?

- A. Baking a cake
- B. Melting chocolate
- C. Burning paper

6. How do temperature and conditions affect whether a change is reversible or not?

7. Reversible changes maintain the chemical ___ of matter.

8. Reversible changes are temporary transformations of matter.

- True False

9. What is the connection between matter changing and God's purposes as mentioned in Ecclesiastes 3:1?

- A. Both are permanent
- B. Both have seasons of transformation
- C. Neither can be changed

10. Can you think of a physical change you observed? Was it reversible or irreversible? Explain your reasoning.

Answer Key

1. A change that returns matter to its original form 2. Changes might not be reversible due to heat or chemical reactions. For example, burning wood creates ash. 3. reversible 4. False 5. Melting chocolate 6. Temperature affects reversibility; heating ice melts it, and cooling it again can freeze it back. Other conditions may prevent reversibility. 7. identity 8. True 9. Both have seasons of transformation 10. I observed ice melting into water. It is reversible because if you freeze the water, it turns back into ice.