

Conservation of Mass Review

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Understanding the Principles of Mass Before and After

Name: _____

Date: _____

Answer the following questions based on what you learned about the conservation of mass.

1. What does the law of conservation of mass state?

- A. Mass can be created and destroyed
- B. Mass remains constant in a closed system
- C. Mass changes in open systems

2. Explain how the experiment with baking soda and vinegar demonstrates the conservation of mass.

3. Matter can be created or destroyed during a chemical reaction.

- True False

4. In a closed system, the total mass remains ____.

5. Why is consistency important in scientific observation?

- A. It helps scientists make accurate predictions
- B. It makes experiments easier
- C. It allows for more variables

6. How might God's design of matter reflect His character?

7. God's intentional design is important for maintaining physical laws.

- True False

8. According to Colossians 1:17, all things are held together in ____.

9. What happens to mass in an open system?

- A. It increases
- B. It decreases
- C. It can change

10. What did you learn about the relationship between science and faith from this lesson?

Answer Key

1. Mass remains constant in a closed system 2. The mass of the baking soda and vinegar before the reaction was equal to the mass after the reaction, showing that mass is not lost but transformed. 3. False 4. constant 5. It helps scientists make accurate predictions 6. God's design shows order and consistency, reflecting His nature as a reliable and unchanging creator. 7. True 8. Him 9. It can change 10. I learned that science helps us understand God's creation and the laws He established, showing His power and wisdom.