Chemical Change Detective Review

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Understanding Chemical Changes

Name: _____ Date: _____

Answer the following questions based on what you learned about chemical changes and their properties.

1. What is one piece of evidence that shows a chemical change has occurred?

- **A.** Change in shape
- **B.** Color change
- **C.** Change in size

2. How can we tell if a change is chemical or physical? Give an example of each.

3. Chemical changes are temporary and can be reversed easily.

◯ True ◯ False

4. During a chemical reaction, new ___ are formed with different properties.

5. How are chemical changes different from physical changes?

- **A.** Chemical changes create new substances, physical changes do not
- **B.** Chemical changes can always be reversed, physical changes cannot
- **C.** Chemical changes only happen with heat, physical changes do not

6. What are some examples of evidence that indicate a chemical reaction has taken place?

7. All changes in matter are chemical changes.

◯ True ◯ False

8. Chemical changes involve the rearrangement of ___ to create new substances.

9. Which of the following is NOT evidence of a chemical change?

- **A.** Bubbling gas
- **B.** Melting ice
- **C.** Color change

10. Why is it important to develop scientific observation skills when studying chemical changes?

Answer Key

1. Color change 2. We can tell by looking for signs like color change or gas production for chemical changes. An example of a chemical change is rusting iron, while an example of a physical change is melting ice. 3. False 4. substances 5. Chemical changes create new substances, physical changes do not 6. Some examples include a change in color, the production of gas, or a temperature change. These signs show that new substances are formed. 7. False 8. molecules 9. Melting ice 10. Developing scientific observation skills helps us accurately identify chemical changes and understand the world around us. It allows us to notice details that reveal important information about the substances we study.