

Rust: Slow Chemical Change Review

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Understanding Oxidation and Rust Formation

Name: _____

Date: _____

Answer the following questions based on the lesson about rust and chemical changes.

1. What is rust primarily made of?

- A. Iron
- B. Iron oxide
- C. Oxygen

2. Oxidation is a slow chemical change that occurs when _____ interacts with metal.

3. Explain how rust formation can be affected by different conditions.

4. Rust is the same material as the original metal.

- True False

5. What is the process called when metals change due to interaction with oxygen?

- A. Oxidation
- B. Rusting
- C. Corrosion

6. Rust formation is an example of a _____ change, where a new substance is created.

7. Where have you seen rust before, and what did it look like?

8. All metals rust at the same rate regardless of conditions.

- True False

9. Why might some metals rust faster than others?

- A. Some are softer
- B. Some are more reactive
- C. Some are heavier

10. How can we appreciate God's design in material transformations like rust formation?

Answer Key

1. Iron oxide 2. oxygen 3. Conditions like moisture, temperature, and presence of salt can speed up rust formation. For example, metal in a humid environment may rust faster than in a dry area. 4. False 5. Oxidation 6. chemical 7. I have seen rust on an old bicycle. It looked reddish-brown and flaky. 8. False 9. Some are more reactive 10. We can see that just as rust transforms metal, God transforms our hearts through different experiences and challenges.
