

Review of Pure Substances and Mixtures

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Understanding the Basics of Chemistry

Name: _____

Date: _____

Answer the following questions based on what you learned about pure substances and mixtures.

1. What makes a substance 'pure'? Explain in your own words.

2. Which of the following is an example of a pure substance?

- A. Saltwater
- B. Oxygen
- C. Sand

3. Elements are made up of two or more different types of atoms.

True False

4. A ____ is formed when different elements combine chemically.

5. How might different substances reflect God's creative design? Provide an example.

6. What can mixtures be classified as?

- A. Only solids
- B. Elements and compounds
- C. Substances that can be separated

7. A mixture has a uniform composition throughout.

True False

8. Yahweh by wisdom founded the earth. By ____, he established the heavens.

9. Can you name an element and a compound? Provide one of each.

10. What is a characteristic of pure substances?

- A. They can be easily separated.
- B. They have a uniform composition.
- C. They are always solid.

Answer Key

1. A pure substance has a uniform composition and cannot be separated into other substances by physical means. 2. Oxygen 3. False 4. compound 5. Different substances show God's creativity because He made each element unique. For example, gold is shiny and valuable, while oxygen is essential for life. 6. Substances that can be separated 7. False 8. understanding 9. An example of an element is Hydrogen, and an example of a compound is Water (H₂O). 10. They have a uniform composition.