

Density Tower Challenge Review

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Understanding Properties of Matter

Name: _____

Date: _____

Answer the following questions based on the Density Tower Challenge lesson.

1. What is density?

- A. Mass divided by volume
- B. Volume divided by mass
- C. Weight of an object

2. What factors might affect a liquid's density? Provide at least two examples.

3. Denser liquids will ____ in a density column.

4. Less dense liquids will always settle at the bottom of a density column.

- True False

5. Why did some objects float while others sank in the density tower?

- A. They were lighter than water
- B. They were heavier than the liquid
- C. Their density was less than that of the liquid

6. How can you predict where an object will settle in a density column?

7. God provides wisdom that helps us navigate life's ____, just as liquids have unique properties.

8. The concept of density can be demonstrated through a liquid density column.

- True False

9. What did we create during the Density Tower Challenge?

- A. A solid tower
- B. A gas column
- C. A liquid density column

10. What did you observe about the layers of liquids in your density tower?

Answer Key

1. Mass divided by volume 2. The temperature of the liquid and the presence of dissolved substances can affect density. 3. sink 4. False 5. Their density was less than that of the liquid 6. You can predict by comparing the object's density to the densities of the liquids in the column. 7. complexities 8. True 9. A liquid density column 10. The liquids formed distinct layers based on their densities, with denser liquids at the bottom and less dense liquids on top.