

# DENSITY READING QUESTIONS

Name \_\_\_\_\_

Period \_\_\_\_\_ Date \_\_\_\_\_

**Directions:** After reading the article *Density* answer the following questions in complete sentences.

1. Describe what happens when the balloons are released. \_\_\_\_\_

\_\_\_\_\_

2. Define the word matter. \_\_\_\_\_

\_\_\_\_\_

3. Define the word mass. \_\_\_\_\_

\_\_\_\_\_

4. Describe how atoms are arranged in solids, liquids, and gases.

Solids	Liquids	Gases

5. Why is helium lighter than air? \_\_\_\_\_

\_\_\_\_\_

6. Define the word density. \_\_\_\_\_

\_\_\_\_\_

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7. In order to compare different materials and determine which is denser, what do you need to do?

\_\_\_\_\_

\_\_\_\_\_

8. What mistake did group 2 make? \_\_\_\_\_

\_\_\_\_\_

9. What is the equation for density? \_\_\_\_\_

10. Which solution was more dense, the green or the yellow? \_\_\_\_\_

11. What unit is made to measure liquids? \_\_\_\_\_

12. Something that has a lot of matter in a cubic centimeter is described as \_\_\_\_\_.

13. Something that has very little matter in a cubic centimeter is described as \_\_\_\_\_.

14. What is the density of water? \_\_\_\_\_

15. If an object has a density of 3 g/cc, will it sink or float in water? \_\_\_\_\_

16. If an object has a density of 0.45 g/cc, will it sink or float in water? \_\_\_\_\_

17. What is formed when salt dissolves in water? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

18. What is more dense, air or helium? \_\_\_\_\_

\_\_\_\_\_

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19. What happens to the atoms and molecules of a gas when it expands? \_\_\_\_\_

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20. How does this expansion affect the density? \_\_\_\_\_

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21. What happens to matter when it gets hot? \_\_\_\_\_

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22. What happens when energy transfers from the Earth's surface to the air? \_\_\_\_\_

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