# Density: Mass Meets Volume

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Understanding the Properties of Matter

Name: _____ Date: _____

*Answer the following questions based on the lesson about density.*

**1.** What is the formula for calculating density?

- **A.** Density = Volume × Mass
- **B.** Density = Mass × Time
- **C.** Density = Mass ÷ Volume

**2.** Density helps us predict if an object will ___ or float.

**3.** Objects with higher density will float in water.

◯ True ◯ False

**4.** Explain why some heavy objects, like boats, can float on water.

**5.** Which of the following is an example of an object that is heavy for its size?

- **A.** A feather
- **B.** A rock
- **C.** A balloon

**6.** God provides ___ for understanding the world around us.

**7.** Density is determined by the relationship between mass and volume.

◯ True ◯ False

**8.** What does it mean if an object has a low density?

**9.** If an object has a mass of 10 grams and a volume of 2 cubic centimeters, what is its density?

- **A.** 5 g/cm³
- **B.** 20 g/cm³
- **C.** 2 g/cm³

**10.** Yahweh gives wisdom, and out of his mouth comes ___ and understanding.

**Answer Key**

1. Density = Mass ÷ Volume 2. sink 3. False 4. Boats can float because their shape allows them to displace enough water, making their overall density lower than that of water. 5. A rock 6. wisdom 7. True 8. If an object has a low density, it means it is lighter for its size and is more likely to float in water. 9. 5 g/cm³ 10. knowledge