DATE: NAME: CLASS:

UNIT 3

Chapter 8 Review

BLM 3-28

Goal • Check your understanding of Chapter 8.

What to Do

Circle the letter of the best answer.

- 1. Which of the following is correct?
 - A. Displacement is a mass-to-volume ratio.
 - B. Displacement is measured with a balance.
 - C. Displacement is the amount of matter in a substance.
 - D. Displacement is the amount of space that an object takes up when placed in a fluid.
- 2. Which of the following units are used to express the density of liquids?
 - A. g/cm³
 - B. g/mL
 - C. mL
 - D. mL/cm³
- 3. Which of the following statements is NOT true?
 - A. Gases are less dense than liquids.
 - B. Gases are less dense than solids.
 - C. Liquids are less dense than solids.
 - D. Solids are less dense than gases.
- 4. Which of the following statements is true?
 - A. Attractive forces among particles of a gas are stronger than those between liquid particles.
 - B. Attractive forces among particles of a liquid are stronger than those between solid particles.
 - C. In solids, particles cannot be easily pushed apart.
 - D. Liquid particles have more space between them than gas particles.
- 5. As the thermal energy of a substance increases, its particles move farther apart.
 - As a result, which of the following occurs?
 - A. Density decreases.
 - B. Density does not change.
 - C. Density increases.
 - D. Mass increases.

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BLM 3-28 continued

Match the Term on the left with the best Descriptor on the right. Each Descriptor may be used only once.

Term	Descriptor
6. displacement 7. mass 8. mass-to-volume ratio 9. volume	 A. attraction of particles for each other B. does not change C. the amount of matter in a substance D. the amount of space an object takes up when placed in a fluid E. the amount of space occupied by a substance F. used to calculate density

Short Answer Questions	
10.	Calculate the density of the following substances: (a) 40 cm³ of brown sugar with a mass of 62.8 g
	(b) 135 g of aluminum that has a volume of 50 cm ³
	(c) 12 mL of oil with a mass of 10.5 g