

Section Review

Physical Properties

USING VOCABULARY

1. Use *physical property* and *physical change* in separate sentences.

UNDERSTANDING CONCEPTS

2. **Comparing** Explain why a golf ball is heavier than a table-tennis ball even though the balls are the same size.

3. **Describing** Explain what happens to a substance when it goes through a physical change.

Section Review *continued*

INTERPRETING GRAPHICS

Use the table below to answer the next two questions.

Substance	Density* (g/cm ³)
Zinc (solid)	7.13
Silver (solid)	10.50
Lead (solid)	11.35

*at 20°C and 1.0 atm

4. Identifying Suppose that 273 g of one of the substances listed above displaces 26 mL of water. What is the substance?

5. Evaluating How many milliliters of water would be displaced by 408 g of lead?

CRITICAL THINKING

6. Applying Concepts How can you determine that a coin is not pure silver if you know the mass and volume of the coin?

Section Review *continued*

7. Identifying Relationships What physical property do water, oil, mercury, and alcohol share?

MATH SKILLS

8. Using Equations What is the density of an object that has a mass of 350 g and a volume of 95 cm³? Will the object float in water? Show your work below.

CHALLENGE

9. Analyzing Processes Write a step-by-step process for finding the density of an unknown liquid. List the laboratory equipment needed for each step.
