REVIEW

2

SECTION 2.3

Properties of Matter

1.	Classify each of the following as a physical or chemical property of sulfur.
	a. Its density is 2.97 g/cm ³ .
	b. It reacts with hydrogen to form a gas.
	c. It is a yellow solid.
	d. Its melting point is 112°C.
	e. It combines with oxygen.
2.	Classify each of the following as a physical or chemical property of phosphorus.
	a. It is a white, waxy solid.
	b. It burns in air.
	c. Its melting point is 44.1°C.
	d. It has a density of 1.82 g/cm ³ .
	e. Its boiling point is 280.3°C.
2	Categorize each of the following examples as a chemical or physical change.
٥.	a. bending a metal rod
	b. burning wood
	c. breaking glass
	d. painting wood
	e. cooking
	f. burning propane
4.	Calculate the mass of a sample of pure silver (density = 10.49 g/cm^3) that has a volume of 12.99 cm^3 .
5.	Compute the density of an 820 g sample of pure silicon occupying a 350 cm ³ container.
6.	Explain how mass and energy are conserved when food is digested.