

## Properties of Matter

### 10<sup>th</sup> Grade Chemistry

Name: \_\_\_\_\_ Date: \_\_\_\_\_

I. Classify each of the following as a chemical or physical property. Write C if it is chemical and P if it is physical.

a) reacts with vinegar _____	i) is flammable _____
b) is green _____	j) is 2.7 cm long _____
c) conducts heat _____	k) is malleable _____
d) easily corrodes _____	l) condenses at -123 °C _____
e) boils at 110°C _____	m) has a density 1.3 g/cm <sup>3</sup> _____
f) dissolves in kerosene _____	
g) can be drawn into a wire _____	
h) is corrosive _____	n) reacts with water _____

II. Calculate the density of the following materials.

a. 35.0 g of a substance that occupies 25.0 mL

b. 2.80 g of a substance that occupies 2.00 L

c. Determine the volume that a 35.2 g of carbon tetrachloride will occupy if it has a density of 1.60 g/mL.

d. The density of ethanol is 0.789 g/mL. What is the mass of a 150 L of this alcohol?

e. A block of lead displaces a volume of 27.00 mL. Calculate the mass of this block, if the density of lead is 11.34 g/mL.