

**Names**

**Date**

**Period**

**Grade:**

# **EXPERIMENT 5**

## **DENSITY OF SOLIDS**

### **PRE-LAB QUESTIONS:**

1. State the formula for density. What is the unit density is expressed in?
2. State the formula for determining percent error.
3. What reference table will be used to help you determine the accepted values for the densities of copper, aluminum and zinc?

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## EXPERIMENT 5 DENSITY OF SOLIDS

### DATA AND RESULTS:

Copper		Aluminum		Zinc	
Mass of Copper		Mass of aluminum		Mass of zinc	
Volume of water		Volume of water		Volume of water	
Volume of water and Cu		Volume of water and Al		Volume of water and zinc	
Volume of Cu		Volume of Al		Volume of zinc	

### CALCULATIONS:

Determine the density of copper.		Determine the density of aluminum.

Determine the density of Zinc.

## CONCLUSION QUESTIONS:

1. Calculate the percent error of your results for
  - a. copper
  - b. aluminum
  - c. zinc
2. The method you used to find the density of a solid, will not work for all solids. Why not? Suggest a method for determining the density of these solids.