

# Density Determination

**Purpose:** The purpose of this activity is to determine the density of a cube of a known substance.

**Props:**     balance scale  
                 Ruler  
                 Variety of cubes

## **Procedure:**

1. Determine the mass of one cube. Record below.
2. Measure and record the necessary dimensions in centimeters.
3. Calculate the volume using the correct formula.
4. Calculate the density using the correct formula.
5. Rank from 1-6 with 1 being the least dense and 6 being the most dense.

Cube material	length	width	height	Volume	Density	Rank

Formulas:     Volume of a cube?

Density?

## **Ponder:**

1. Why is the size of an object not an indicator of its density?
2. How could you have determined which object was most dense without doing any calculations? THINK!