**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_**

j0291934[1]**Volume Lab**  **Lab Partner\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Volume = Length x Width x Height or V = L x W x H

## I. Determining volume of a regularly shaped object

**Procedure**

1. Measure the length, height and width and record. Take these measurements in cm and measure to the nearest tenth of a cm.
2. Multiply the three measurements using this formula V = L x W x H to determine the volume of the block of wood. Show work. Record this volume

### Block of wood (Label Everything Correctly)

**Block #\_\_\_\_\_\_\_\_\_\_**

Length\_\_\_\_\_\_\_\_ Width\_\_\_\_\_\_\_\_ Height\_\_\_\_\_\_\_\_ Volume=\_\_\_\_\_\_\_\_\_\_\_\_\_

**II. Using an overflow can to determine volume**

**Procedure**

1. Fill an overflow can to the spout with water. Catch any water that comes out of the overflow can. Discard this water and wipe the beaker dry.
2. Place the same block of wood into the overflow can, catching the water it displaces in a beaker.
3. Push the block of wood completely underwater with a small object such as a paper clip or pencil.
4. Take the water that was displaced and measure the volume in a graduated cylinder.
5. Record this volume below

### Block of wood (Label Everything Correctly)

Volume of water displaced =\_\_\_\_\_\_\_\_\_\_\_\_\_ (This is the volume of the block of wood)

**III. Determining volume of a irregularly shaped object using a graduated cylinder**

**Procedure**

1. Fill a 50 mL graduated cylinder with water to the 30 mL mark
2. Record the initial volume
3. Add the sinker and record the final volume of the graduated cylinder
4. Subtract the initial volume from the final volume to determine the total volume of the sinker.

Label correctly and show your work!

Initial Volume of graduated cylinder\_\_\_\_\_\_\_\_\_\_

Final Volume of graduated cylinder\_\_\_\_\_\_\_\_\_\_\_

Volume of sinker\_\_\_\_\_\_\_\_