

Volume Experiment Worksheet

Name: _____

Solid Volumes

Small Cube

1. What is the length of each side of the small cube (in cm)? _____
2. What is the volume of the small cube (in cm^3)? _____

Large Cube

3. What is the length of each side of the large cube (in cm)? _____
4. What is the volume of the large cube (in cm^3)? _____

Flat Block

5. Measure the sides and calculate the volume the flat wooden block.

(Length: _____ cm) \times (Width: _____ cm) \times (Height: _____ cm) = Volume: _____ cm^3

6. Stack four blocks into the square container. What volume is filled with blocks? _____ cm^3



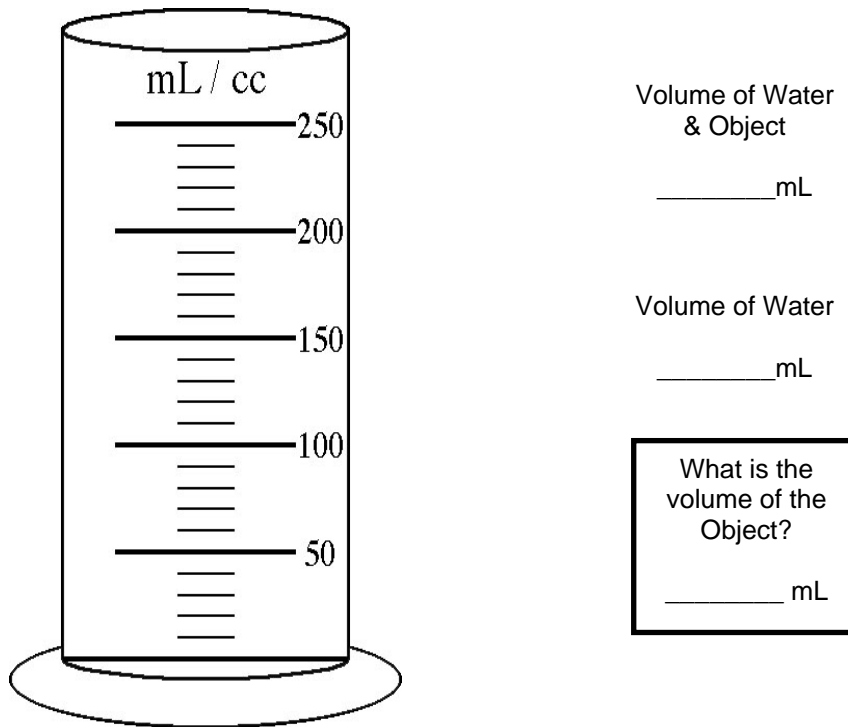
Liquid Volumes

Remove the wooden blocks and fill the square container with water up to the 64 cc mark. Pour the 64 cc of water into the plastic graduated cylinder.

7. What is the volume of water in the graduated cylinder? _____ mL
8. Does this volume of water look different in the square and cylindrical containers? _____

Volume of Odd-Shaped Solids

9. Fill the square container up to 64 cc etch mark with water and pour the water into the graduated cylinder. Do this two times. Write in the volume on the "Volume of Water" blank. Draw a line at the volume on the graduated cylinder and connect it to the "Volume of Water" blank with an arrow.
10. Place the object (plaster cylinder) into the graduated cylinder. Draw the object on the picture. Record the volume of the water and the object on the blank labeled "Volume of Water & Object" Draw a line at the volume on the graduated cylinder and connect it to the blank using an arrow.
11. Shade in the space between the "Water & Object" and "Water" lines using your pencil. This corresponds to the volume water displaced by the object. Subtract to find the volume of the object and record on the blank.



Double Dare Volume Challenge

12. Estimate the volume of water you think the sponge will hold: _____ mL
13. Measure the volume of water you squeezed out of the sponge: _____ mL
14. Subtract the small number from the big number to find how close you were: _____ mL