

Title: Measuring Volume

Problems: How do you measure the volume of a rectangular solid? How do you measure the volume of a liquid? How do you measure the volume of an irregular object?

Hypothesis: Answer each question posed in the problem.

Materials: Ruler, Graduated Cylinder & displacement tin.

Procedure:

1. Measure the length, width and height of the wood block. Record on data table.
2. Calculate the volume with the correct units.
3. Repeat steps 1 and 2 for the other rectangular solid.
4. Use the displacement tin and graduated cylinder to determine volume of large rock. (How? ASK!)
5. Use only the graduated cylinder and water displacement to determine the volume of the marbles or small rock. Record on data table.

Data: Use the data table below to record what you collected.

Object	Length	Width	Height	Volume
Wood Block				
Object 2				
Water Displacement	Beginning Volume	Ending Volume	Volume	_____
Big Rock	_____			_____
Marbles				_____

Analysis/Result Questions

1. What is a meniscus?
2. What item had the largest volume? Explain.
3. What item had the smallest volume? Explain.
4. In your opinion, which method of finding the volume was the fastest?
5. Write the steps need to use the displacement tin to find volume.

Conclusion: Accept or reject each of your hypotheses, discuss any errors you possibly had as you walked through the stations. Explain exactly what you learned in this lab.

