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Title: Measurement Lab.

Purpose: To familiarize ourselves with using measuring devices such as the vernier caliper, and recording measurements while estimating uncertainty.

Equipment: Vernier Caliper, Meter Stick, Metric Ruler, Wooden Block, and Graduated Cylinder.

Procedure/Data:

1. Determining the volume of the wood block (B): Using the vernier caliper, we measured the length, width, and the height of the wood block to get the volume. (51.2mm (Width) X 20.9mm (Length) X 50.2 (Height)) = 53,718mm3

2. Determining the volume of a cylinder: Using the back side of the vernier caliper, we measured the diameter of the cylinder to be 12.0mm which makes the radius 6.00mm. Then we used the wooden stick to mark the depth and them measured that mark to make the height 106.7mm. Using the formula (pi x height x radius2) = 12,061mm3

3. Determining the volume of a sheet of paper: 20 sheets=1.0mm/20=.05mm per sheet.

4. Determining the volume of the classroom: 285.89m^3

Conclusion:

With this lab, we learned how to determine the volume of various objects. This was done by measuring the length, width, and height. Some skill I learned was how to use a Vernier Caliper, and also how to calculate area with cubic information. If I could change anything about the lab I would have originally measured in centimeters instead of converting from inches and feet.