Before you start the lob, wate the reforma info into your lob book (lupb)

Lab 3 : Measurement & SI Units

Purpose: Practice converting between metric units

Objective:

- -Obtain 20 Measurements of the size, volume, a mass of various objects
- -Give measurements in the base unit, and select 2 other units to convert to -Calculate the density of each sample

Data Table: Create a data table that allows for measurement in (a) SI standard units, and (b) two other conversions. For example, if you are measuring your height, the data needs to be recorded in meters (m), centimeters (cm), and kilometers (km). Must show all calculation set up in "calculation" section.

Analysis: No graph, but answer the following:

- 1. What is the importance of standard units of measure
- 2. Calculate the density of each sample using the formula density=
- 3. Does mass depend on the size or shape of an object? Explain
- 4. Identify the variables you used to determine the volume of each sample
- 5. List the standard units you used in this investigation units!

Ex:	DATA	* Must write
45000		

Object to measure	M Base Unit	Converted Msm+#1	Converted Memt # 2	Mass	Volume	Densit
. iPhoneX	14.5 cm	0.145m	145 mm	1749	116cm3	1.5 g/cm
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①
$$14.5 \text{cm} \div 100 = 0.145 \text{m}$$

 $14.5 \text{cm} \times 10 = 145 \text{mm}$

Vol.= 1 cm × 8 cm × 1405cm = 116 cm³

$$d = \frac{m}{116 \text{ cm}^3} = 1.5 \text{ g/cm}^3$$