Name: _____

Date: _____ Pd: ____

Metric Measurement Lab

In this lab, we will be using the metric measuring system to measure the length, volume and mass of objects around the classroom. We will then be using these measurements to convert between the different (word here). **YOU MUST SHOW ALL WORK FOR EVERY CONVERSION!!!**

Length

Notebook Paper:

Length: 8 cm = _____ m = _____ mm

Width: 12 cm = _____ m = _____ mm

Area (LxW) = _____ cm^2

Desk:

Height = 52 cm = _____ m = _____ mm

Lab Table:

Length (long side) = 146 cm = _____ m = _____ mm

Volume

Plastic Cup:

Volume = 24 mL = _____ L

Block:

Volume (l x w x h) = _____ cm^3

Rock or Cylinder: For this station, measure 30 mL into a graduated cylinder, add the rock or cylinder to the water. Once the water settles, read where the water has risen to and subtract from the original level.

Volume = 28 mL = _____ L

Mass

Shoe:

Mass = 133 g = _____ Kg

Block:

Mass = 92 g = _____ Kg

Cylinder:

Mass = 87 g = _____ Kg

Discussion Questions:

Answer in complete sentences where necessary. If any conversions or math is needed it must be shown. As always **SHOW ALL WORK!!**

1. Your notebook paper measured _____ cm. If the lab table was _____ cm, how many pieces of paper are needed to cover the entire length of the table? **SHOW ALL WORK**

   _____ pieces of paper

2. Between the block and the cylinder, which has more mass? _____
   How do you know? **SHOW ALL WORK**

3. If the volume of a can of coke is 425 mL, how many cans of coke can fit into the plastic cup that you measured? **SHOW ALL WORK**