Name: _____

Pre-Lab Activities: Metrics Lab

Complete these activities prior to coming to lab.

Activities 1: Metric Units for Length

*Please use information in the metrics conversions section to help you answer these questions

- Grams are used to measure _____
- Liters are used to measure _____
- Meters are used to measure_____
- Temperature is measured in_____

- Place the following terms in order of increasing size (smallest to largest): **meter, micrometer, millimeter, nanometer, kilometer, decimeter.**

- Which is longer? (For each pair circle the longer one)
  - 10 km or 10 m
  - 15 m or 15 mm
  - 20 µm or 20 mm
  - 50 cm or 50 dm

Activity 2: Estimation

- Practice estimating measurements. Look at the units and numbers for each answer and pick your best approximation (circle one for each).

How long is a guitar?
a. 1 km
b. 1 m
c. 1 mm
d. 1 cm

What is the length of your textbook?
a. 10 m
b. 30 cm
c. 10 cm
d. 30 mm

What is the length of a sperm cell?
a. 50 m
b. 50 cm
c. 50 mm
d. 50 µm

How much does a bar of gold weigh?
a. 10 kg
b. 1 kg
c. 10 g
d. 1 g

How much does an apple weigh?

a. 1 kg
b. 100 g
c. 10 g
d. 100 mg

How much water should you dink in a day?

a. 15 L
b. 1.5 L
c. 15 mL
d. 1.5 mL

How much volume of water is 20 drops of water from a medicine dropper?

a. 2 L
b. .5 L
c. 10 mL
d. 1 mL

Activity 3: Measuring and Estimating Volume, Mass, and Temperature

? Use a ruler to measure the line below in centimeters (to the closest ½ centimeter)

_____cm

? Given that there are 10 millimeters in a centimeter, how many millimeters is the line above?

_____ cm x 10 = _____ mm