

Name: _____

Post-lab: Metrics Lab

Complete these questions after you complete the review of the metric system lab.

Activity 1: Metrics Units for Length

- Place the following units in DECREASING size: micrometer, centimeter, kilometer, meter, millimeter.
- You wish to convert a small measurement, such as a millimeter, into a bigger measurement, meters. Will the resulting number (meters) be bigger or smaller than the number in millimeters?
- State how many meters are in the following units listed below:
- 1 m = _____ km
 - 1 m = _____ μm
 - 1 m = _____ mm
 - 1 m = _____ dm
 - 1 m = _____ cm
- Convert the following measurements:
- 2.21 cm = _____ mm
 - 108 cm = _____ mm
 - 1,010 μm = _____ mm
 - 5.87 mm = _____ μm
 - 36.2 dm = _____ m
 - 0.000005 km = _____ μm

➤ Match the following objects to their approximate weights: 20 g, 200 g, 3.5 kg, 2,500 kg, and 6,000 kg (use each weight once)

- Weight of a mouse _____
- Weight of a male African elephant _____
- Weight of an electric car _____
- Weight on an avocado _____
- Weight of a newborn baby _____

Activity 2: Estimation

➤ Match the following objects to their approximate volumes: 15 mL, 240 mL, 475 mL, 3 L, and 5 L (use each volume once)

- Volume of Starbucks Grande coffee _____
- Average volume glass of water _____
- Average volume of blood in the body _____
- Average capacity of the stomach in an adult _____
- Average capacity of the stomach in a newborn _____

➤ Identify the most likely temperature for the following scenarios using the following numbers: -20°C , 10°C , 20°C , 38°C , and 45°C (use each temperature once)

- Fever in an adult _____
- Summit of Mt. Everest in the summer _____
- Death Valley in the summer during the day _____
- Beach weather in Maui _____
- Ski weather in Switzerland _____

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

➤ Compare the following numbers as larger $>$, smaller $<$, or equal $=$:

- | | | | | | | | |
|----|--------|-------|--------|----|---------|-------|--------|
| a. | 6 L | _____ | 590 mL | e. | 65 mm | _____ | 6 cm |
| b. | 50 mm | _____ | 6 cm | f. | 7 L | _____ | 860 mL |
| c. | 3000 g | _____ | 2 kg | g. | 6,000 g | _____ | 6 kg |
| d. | 800 cm | _____ | 8 m | h. | 460 m | _____ | .5 km |