

Date \_\_\_\_\_ Name \_\_\_\_\_

## Metric Measurement Lab Activity

**OBJECTIVE:** In this activity, we will review metric units for measuring distance or length – the meter, decimeter, centimeter, and millimeter. We will also use the units to estimate and then measure the sizes of various objects.

**PROCEDURE:** 1. Use a meterstick and any other provided materials to measure the objects listed in the chart below. Make sure you use the metric side of the meterstick (with numbers to 100 cm, not 36 inches).

2. Measure the objects in the units listed. Write the unit abbreviation after the measurement you get (ex. instead of 27.3, write 27.3 cm).

Object	Measurement	Units
Paperclip Width		Millimeter (mm) and Centimeter (cm)
Paperclip Length		Centimeter (cm) and Decimeter (dm)
Penny Diameter		Millimeter (mm) and Centimeter (cm)
Your Wrist to Elbow		Centimeter (cm) and Decimeter (dm)
Your Foot		Centimeter (cm) and Decimeter (dm)
Circumference of a Tree		Decimeter (dm) and Meter (m)
Length of Parking Space		Decimeters (dm) and Meters (m)
Width of Parking Space		Decimeters (dm) and Meters (m)

3. Estimate, and then calculate the **AREA** of the parking space. Do not forget to include the proper units.

Estimation	Calculation

**THINK DEEPER:** Answer the following questions as completely as you can.

- A. How might you estimate the area of a leaf?
  
- B. Why is it more appropriate to measure a parking space in meters rather than centimeters?
  
- C. What is the difference between accuracy and precision?