

## Metric Measurements Worksheet

Period \_\_\_\_ Name \_\_\_\_\_

In this activity, you will measure selected distances using various metric units of measure. **Before taking any measurements**, there is a section on estimating. Please estimate all asked for distances before taking out and using your ruler or meter stick.

Equipment - meter sticks, balances, 600 ml beakers, textbooks, pen/pencil

### Section A - Estimation

Estimate the following distances using the units of measure indicated. Remember, an estimate does not have to be right and it does not have to be extremely accurate.

1. Length (distance up the spine) of your text - \_\_\_\_\_ cm
2. Width (across the spine) of your text - \_\_\_\_\_ mm
3. Length (longest measurement) of your lab table top - \_\_\_\_\_  
cm
4. Longest distance across this room - \_\_\_\_\_ m
5. Travel distance to \_\_\_\_\_ - \_\_\_\_\_ km
6. Mass of your text - \_\_\_\_\_ gm
7. Mass of your pen or pencil - \_\_\_\_\_ gm
8. Mass of lab table - \_\_\_\_\_ kg
9. Mass of Volkswagen Beetle - \_\_\_\_\_ kg

### Section B - Measuring Distance

Measure each of the listed distances. You may estimate one decimal place; if your measurement falls between 3 mm and 4 mm and you can see that it is very close to 3 mm, then you may estimate it as 3.1 or 3.2 mm.

1. Length (distance up the spine) of your text - \_\_\_\_\_ cm
2. Width (across the spine) of your text - \_\_\_\_\_ mm
3. Width (across the front) of your text - \_\_\_\_\_ cm
4. Length (longest measurement) of your lab table top - \_\_\_\_\_  
m
5. Diameter of a 600 ml beaker - \_\_\_\_\_ cm
6. Longest distance across this room - \_\_\_\_\_ m
7. Height of lab table - \_\_\_\_\_ mm
8. Width of lab table - \_\_\_\_\_ mm
9. Height to ceiling for this room - \_\_\_\_\_ cm
10. Thickness of a meter stick - \_\_\_\_\_ mm
11. Diameter of your pen or pencil - \_\_\_\_\_ mm

### Section C - Measuring Mass

Measure the mass of each of the following objects using a balance. If your observed measurements are between two of the most accurate marks on the balance, you may estimate one decimal place.

1. Mass of your text - \_\_\_\_\_ gm
2. Mass of your pen or pencil - \_\_\_\_\_ gm