



# Metric System Scavenger Hunt

Name:

Period:

Date:

**Directions:** Look for objects around the classroom or in your backpack that are close to the length, volume, or mass listed in the first column of the data tables. Measure the actual length, volume, and mass, and then calculate the difference. Add up the total differences at the end.

**Materials Needed:**

- Meter stick
- Electronic scale or triple beam balance
- Calculator

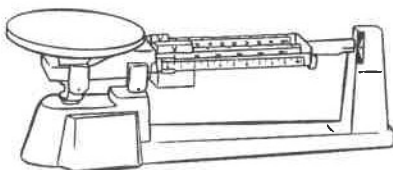
Desired Length	Object	Actual measurement (cm)	Difference (cm)
40.0 cm			
1.2 cm			
77.0 cm			
5.8 cm			
23.6 cm			
Total difference:			

Desired Volume	Object	Actual measurement (mL)	Difference (mL)
354 mL			
6.5 mL			
88.0 mL			
3700.0 mL			
504 mL			
Total difference:			

Desired Mass	Object	Actual measurement (g)	Difference (g)
8.0 g			
39.5 g			
420.0 g			
98.2 g			
299.0 g			
Total difference:			

**Post-Lab Questions:**

1. What are the metric units of length? \_\_\_\_\_
2. What are the metric units of volume? \_\_\_\_\_
3. What are the metric units of mass? \_\_\_\_\_
4. How many  $\text{cm}^3$  are in 1 mL? \_\_\_\_\_
5. This tool is used to measure... \_\_\_\_\_



\_\_\_\_\_

6. What are the metric prefixes in order from largest to smallest?  
 \_\_\_\_\_

7. Complete the conversion:  $45.2\text{cm} =$  \_\_\_\_\_  $\text{m}$

8. Complete the conversion:  $92,500\text{ mg} =$  \_\_\_\_\_  $\text{kg}$

9. Complete the conversion:  $0.27\text{ hg} =$  \_\_\_\_\_  $\text{g}$

10. Complete the conversion:  $81\text{ mL} =$  \_\_\_\_\_  $\text{l}$