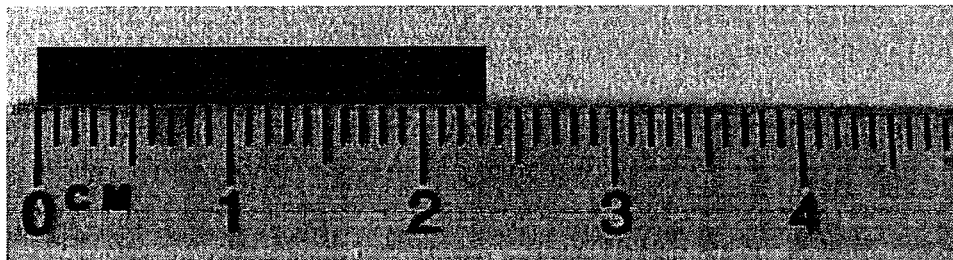


Hg

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Scientific Measurement Classroom Scavenger Hunt



2.3 cm  
23 mm

#### Part one: Measuring length

Directions: Use either a meter stick or metric ruler to measure the following items in the class room. You will work in lab groups but can move around the room if you need to. *Convert your measurements using your metric chart.*

1. Length of paper clip: \_\_\_\_\_ cm \_\_\_\_\_ dm
2. Width of paper clip: \_\_\_\_\_ cm \_\_\_\_\_ mm
3. Width of classroom door: \_\_\_\_\_ cm \_\_\_\_\_ m
4. Height of classroom door: \_\_\_\_\_ cm \_\_\_\_\_ km
5. Length of student desk: \_\_\_\_\_ cm \_\_\_\_\_ m
6. Length of teacher desk: \_\_\_\_\_ cm \_\_\_\_\_ km
7. Length of science book: \_\_\_\_\_ cm \_\_\_\_\_ mm
8. Width of science book: \_\_\_\_\_ cm \_\_\_\_\_ mm
9. Thickness of science book: \_\_\_\_\_ cm \_\_\_\_\_ mm
10. Length of classroom (across the front of the room by the board) \_\_\_\_\_ cm \_\_\_\_\_ km
11. Length of new pencil eraser: \_\_\_\_\_ cm \_\_\_\_\_ m
12. Thickness of pencil eraser: \_\_\_\_\_ cm \_\_\_\_\_ mm
13. Length of computer keyboard: \_\_\_\_\_ cm \_\_\_\_\_ dm
14. Height of classroom floor to ceiling: \_\_\_\_\_ cm \_\_\_\_\_ km

Part two: Measuring mass and volume

Directions: Using the \_\_\_\_\_ balance and graduated cylinder, measure the mass, in grams. *Then convert to the new unit.*

- |   |          |
|---|----------|
| 1. Empty graduated cylinder: _____ g  | _____ kg |
| 2. <i>4.5</i> ml of water: _____ g (hint: you will need to do some subtraction here!) | _____ mg |
| 3. <i>9.5</i> ml of water: _____ g (see hint in # 2)                                  | _____ dg |
| 4. Brand new pencil: _____ g  | _____ mg |
| 5. 10 paper clips: _____ g  | _____ mg |
| 6. Dry erase marker: _____ g  | _____ cg |
| 7. <i>Post It PAD</i> _____ g   | _____ kg |
| 8. Highlighter: _____ g   | _____ dg |

Part Three: Conclusions

Directions: Answer the following questions in complete sentences on separate lined paper.

1. What is the smallest amount of liquid your graduated cylinder can measure?
2. What is the most amount of liquid your graduated cylinder can measure?
3. What was the heaviest thing you weighed?
4. What was the lightest thing you weighed?
5. Explain how you measure the amount of liquid in the graduated cylinder.
6. What was the longest thing you measured?
7. What was the shortest thing you measured?
8. Why is the metric system easier to use than the standard English system?
9. *Calculate the volume of your text book.*