METRIC MANIA

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

MEASUREMENTS: Include d.o.f., uncertainty and units based on measuring tool. #5, 6 – do not worry about the uncertainty.

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Length of your stride, back toe 🡪 front heel (m)
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Temperature of room temperature water (degrees C)
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of mystery liquid (mL)
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Time it takes for the balloon to hit the ground (starting at   
    lab desk height) (s)
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of cube (cm3)
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Volume of cube (mm3)
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mass of cube (g)

CONVERSIONS: Can be done outside of class. Show work.

1. Your stride (m) \_\_\_\_\_\_\_\_\_\_\_\_\_\_

* If her step took 1.0 seconds, how far did she travel in 1 hour?
* How many minutes would it take for her to travel 2 miles?

2. Room Temperature Water (Celsius) \_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Convert temperature in Celsius to Kelvin.

3. Mystery Liquid Measure (mL) \_\_\_\_\_\_\_\_\_\_\_\_\_\_

* How many samples of the mystery liquid would it take to fill a 12 oz can of soda?

4. Balloon Drop Time (s) \_\_\_\_\_\_\_\_\_\_\_\_\_\_

* How many times could you drop the ball in a day?

5. Volume of cube (cm3) \_\_\_\_\_\_\_\_\_\_\_\_\_

* What is the volume (in cm3) of 4 cubes?

6. Volume of cube (mm3) \_\_\_\_\_\_\_\_\_\_\_\_\_

* What is the volume (in mm3) of 4 cubes?

7. Mass the cube (g) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* What is the mass of the cube measured in mg?
* What is the mass of the cub measured in lbs? (2.2 lbs = 1 kg)