

**Do Now:**

1. Please take your seat QUIETLY.
2. Take out your homework and place it in the right corner of your desk.
3. Get out your homework, homework tracker, green folder, and green notebook.

~~~~~  
4. Finished? Make sure your bookbag/folders are organized.

## HOMEWORK

### Scientific Method Sheet.

**Objective:**

**I will make good scientific measurement and use a ruler to make quantitative observations (measurements).**

Turn & Talk Protocol

Goal: Share your ideas with your table partner and practice expressing yourself scientifically.

1. Turn to your table partner.
2. Take turns sharing your thoughts with your partner (ONLY SCIENCE).
3. Give each other feedback on these thoughts.

"I agree with you because... "

"I disagree because... "

"OH! And, I also think..."

| <u>Table of Contents</u> |       |        |
|--------------------------|-------|--------|
| Date                     | Topic | Page # |
|                          |       |        |
|                          |       |        |
|                          |       |        |
|                          |       |        |
|                          |       |        |
|                          |       |        |
|                          |       |        |
|                          |       |        |
|                          |       |        |

| Table of Contents |                         |        |
|-------------------|-------------------------|--------|
| Date              | Topic                   | Page # |
| 9/10/13           | Observations 3 (metric) | 1      |
|                   |                         |        |
|                   |                         |        |
|                   |                         |        |
|                   |                         |        |
|                   |                         |        |
|                   |                         |        |
|                   |                         |        |
|                   |                         |        |

Observations 3 9/10/13

Metric System =  
Scientific  
measurement  
→ Based on real quantities

Length = meter  
 { 1 meter  $\approx$  3 1/4 ft  
 { 2 meters = Doorway height

Big ↑  
 Kilometer 1000 m  
 hecto meter 100 m  
 deka-meter = 10 m  
 meter  
 deci meters = 1/10<sup>th</sup> finger  
 \* centi meters = 1/100<sup>th</sup> width finger  
 milli meter = 1/1000 thickness of finger  
 Small ↓

NO NAKED NUMBERS!

Based on 10's  
Metric System - Scientific measurement  
Length Unit = Meter

| Unit            | Length                                |
|-----------------|---------------------------------------|
| kilometer (km)  | 1,000 m (1 X 10 <sup>3</sup> m)       |
| meter (m)       | 1 m                                   |
| centimeter (cm) | 0.01 m (1 X 10 <sup>-2</sup> m)       |
| millimeter (mm) | 0.001 m (1 X 10 <sup>-3</sup> m)      |
| micrometer (um) | 0.000001 m (1 X 10 <sup>-6</sup> m)   |
| nanometer (nm)  | 0.00000001 m (1 X 10 <sup>-9</sup> m) |

2m = doorway  
 2.5cm = in  
 thickness of finger (mm)

Observations:

1. Make observations using your 5 senses (minus taste) on your object.
2. Create field notes... meaning you need to include written and drawn information.  
  
(Tip: Label your drawings with lengths and descriptions.)
3. Measure as many parts of your object as possible.

