**Measurement Guided Notes Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Scientific Notation**

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ method to express \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ numbers

Scientific Notation is based on powers of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Write the number in scientific notation below and label coefficient and base:

Examples:

Write 1st number (other than zero), then a decimal point and any other numbers other than zero

Count the number of values from the old decimal point to the new one. This is the exponent.

Moved right to left – positive exponent. Moved left to right – negative exponent

123,000,000,000 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0.0000000000123 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Practice problems:

 1.

 2.

 3.

**SI/Metric System**

Define: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

The base unit for mass is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(\_\_\_\_).

The base unit for volume is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(\_\_\_\_) or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(\_\_\_).

The base unit for length is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(\_\_\_\_).

The base unit for time is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(\_\_\_\_).
 *Metric Conversions*


Count how many places you go from the start to what you want. Move the decimal place that many places and in that direction

Example: How many meters are in 0.633 kilometers? Start = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Want = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example: How many grams are in 5.678 centigrams? Start = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Want = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Finding Sides and Angles for Right Triangles**

Total degrees in triangle: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Example:

Pythagorean Theorem: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ? = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rearranging Equations**

Solve for x: x + 2 = 4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2x = 4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

x – 2 = 4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ x/2 = 4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Slope and Area**

Area of a square/rectangle = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area of a triangle = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Slope = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Pick 2 points on line, use formula.)

Examples:



Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 Slope = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_