Unit 1: Ch 1-2 – Measurements/S.I. Units/Metric Conversions

What is chemistry?

- **DEFINITION**:

Fundamental vs Derived Measurements:

- **FUNDAMENTAL –**
    - Ex:
    - Ex:
- **DERIVED –**
    - Ex:
    - Ex:

Common Lab Instruments:

- **#1 Graduated Cylinder –**
    - More _____ lines = More _____ measurement.
- **#2 Erlenmeyer Flask –**
- **#3 Volumetric Flask –**
    - Measures _____ volume of _____.
- **#4 Volumetric Pipette –**
- **#5 Beaker –**
- **#6 Electronic Scale (Balance) –**

Metric System (SI) – International System of Units: *Refer to handout of SI Units and metric prefixes*

Draw METRIC LINE:

PRACTICE: DIMENSIONAL ANALYSIS

Ex #1) METRIC - How many deciliters (dL) are in 28.0 hectoliters (hL)?

Ex #2) METRIC – How many kilometers are in 419 nanometers?

Ex #3) METRIC - How many micrometers (μm) are in 2.85 kilometers (km)?

Ex #4) METRIC – How many nanometers (nm) are in 0.438 milligrams (mg)?

Ex #5) NON-METRIC - How many seconds are in 39 days?

Ex #6) NON-METRIC - How many kilopascals (kPa) are in 843 cmHg? * 101.3 kPa = 760 mmHg