**Ch. 2-Measurement**

1. **Number vs. Quantity**
   * Quantity- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_+\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * UNITS MATTER!!!!
2. **SI Units**

|  |  |  |
| --- | --- | --- |
| **Quantity** | **Base Unit** | **Symbol** |
| **Length** |  |  |
|  |  | **kg** |
| **Time** |  |  |
|  | **Kelvin** |  |
|  | **Liter or milliliter** |  |

**\*note: mL is the same as cm^3**

|  |  |  |
| --- | --- | --- |
| **Prefix** | **Symbol** | **Factor** |
| **Mega-** |  |  |
| **Kilo-** |  |  |
| **Deci-** |  |  |
| **Centi-** |  |  |
| **Milli-** |  |  |
| **Micro-** |  |  |
| **Nano-** |  |  |
| **Pico-** |  |  |

1. **Derived Units**
   * Combination of base units.
   * **Volume**- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   * **Density-**\_\_\_\_\_\_\_\_\_\_\_\_ per \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_)

**D=M/V**

1. **Density**
   * An object has a volume of 825 mL and a density of 13.6 g/mL. Find its mass.

**GIVEN: WORK:**

**V=**

**D=**

**M=**

1. A liquid has a density of .87g/mL. What volume is occupied by 25 g of the liquid?

**GIVEN: WORK:**

1. You have a sample with a mass of 620 g and a volume of 753 mL. Find density.

**GIVEN: WORK:**