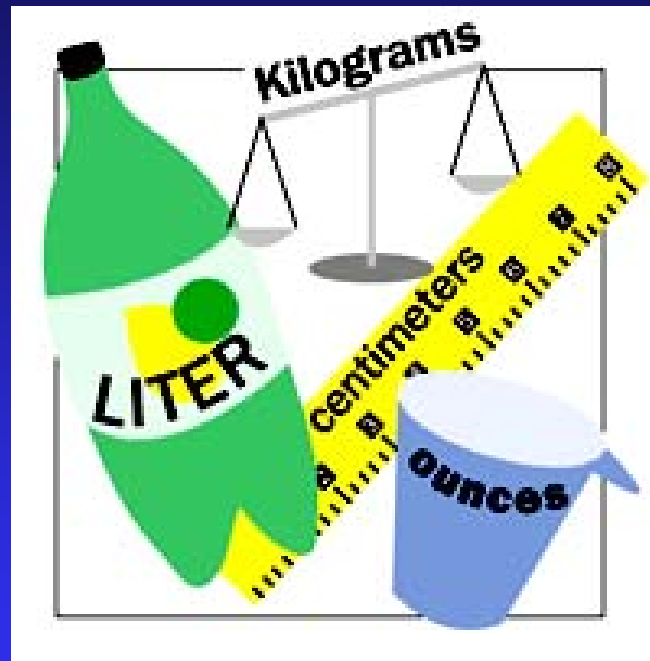


THE METRIC SYSTEM



PRESENTED BY MR. CONANT

WHY DO WE USE THE METRIC SYSTEM?

- Almost all other countries are using the metric system
- Other countries' companies are refusing to buy products from the U.S. if not labeled in metric units
- Scientists need a universal way to communicate data (SI Units)

APPROXIMATE CONVERSIONS BETWEEN METRIC & US LENGTH UNITS

- A meter is about the same length as a yard
- A meter is about three feet long
- A decimeter is about four inches long
- An inch is about 25 millimeters
- A foot contains about 30 centimeters
- A foot contains about 3 decimeters

WHAT DOES THE METRIC SYSTEM MEASURE?

- The gram measures mass or how much something weighs
- The liter measures volume which is used when measuring liquids
- The meter measures the length of an object or the distance from place to place

THE METRIC CONVERSION CHART (STAIRCASE METHOD)

Kilo
1000
units

Hecto
100
units

Deka
10
units


Basic
Unit

Deci
0.1
units


Centi
0.01
units

Milli
0.001
units

To convert to a smaller unit, move decimal point to the right or multiply.



To convert to a larger unit, move decimal point to the left or divide



TRY THIS USING THE STAIRCASE METHOD

$$1000 \text{ mg} = \underline{\hspace{2cm}} \text{ g}$$

- Step 1: Determine if you are going to go up or down the ladder.
- Step 2: Determine how many steps there are from milligrams to grams.
- Step 3: Move the decimal point the amount of places that was determined in steps 1 & 2.

TRY THIS USING THE STAIRCASE METHOD

$$1000 \text{ mg} = \underline{\quad 1 \quad} \text{ g}$$

- Step 1: Determine if you are going to go up or down the ladder.
- Step 2: Determine how many steps there are from milligrams to grams.
- Step 3: Move the decimal point the amount of places that was determined in steps 1 & 2.

TRY THIS USING THE STAIRCASE METHOD

$$.15 \text{ L} = \underline{\hspace{2cm}} \text{ ml}$$

TRY THIS USING THE STAIRCASE METHOD

$$.15 \text{ L} = \underline{\quad 150 \quad} \text{ ml}$$