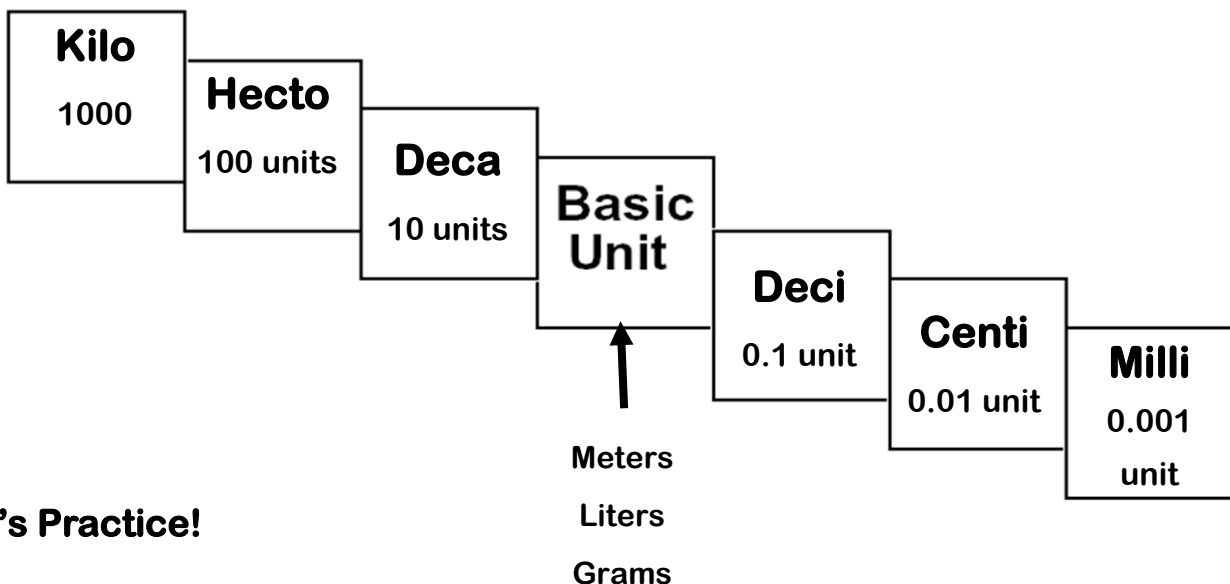


Converting Metric Units

Converting units is very important for a scientist. Converting metric units can be simple using the **ladder method!**

1. Find your starting point on the ladder.
2. Count the steps down (or up) to your ending point.
3. Move the decimal place the same number of steps in the same direction.
 - To convert to a smaller unit, move the decimal point to the **right**.
 - To convert to a larger unit, move the decimal point to the left.



Let's Practice!

$$5 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$$

↑
↑
 Starting point Ending Point

How many steps did you go down?

$$5 \text{ . } \underline{\hspace{1cm}} \text{ . } \underline{\hspace{1cm}} \text{ . } \underline{\hspace{1cm}} \text{ . } = 5000 \text{ g}$$

1
2
3

Help a scientist out!

Alicia collected samples of seaweed and water from the estuary. While measuring the mass and volume of her samples she recorded the samples with the wrong units! Can you help her convert back to the correct units?

- | | |
|------------------------|-----------------------|
| 1) 200 mg = _____ g | 5) 14.0 cg = _____ g |
| 2) 0.0004 kg = _____ g | 6) 1.180 g = _____ mg |
| 3) 0.023 L = _____ mL | 7) 3.45 mL = _____ L |
| 4) 5 ml = _____ L | 8) 0.729 L = _____ mL |

