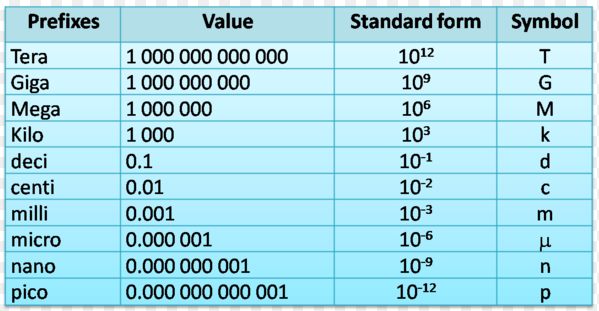
Physics Conversions Brush Up

* Start with knowing the common prefixes and what they stand for

Base Unit

* Remember that you must begin with canceling the unit you have and then introducing a new unit
  + If you begin with km on top it must go on the bottom to cancel
  + \_\_\_\_\_\_\_\_5\_\_\_\_km X \_\_\_\_\_\_\_\_\_1000m\_\_\_\_\_\_\_\_ = 5000m

1 km

* If you begin with a number that has two units (ex: m/s or km/h) choose one unit to convert, get it to the correct units, and then begin with the other unit as if you were starting from the beginning
  + \_\_\_\_\_\_5\_\_\_\_\_km X \_\_\_\_1000\_\_\_\_m X \_\_\_\_\_1\_\_\_\_hr X \_\_\_\_1\_\_\_min = 1.39 m/s

hr 1 km 60 min 60 sec

* Remember that you cannot always just jump straight from one unit to another. If you are moving from a very large unit to a very small unit you move through the base unit (meters, grams, minutes, etc). Always convert back to the base unit and then convert to the next unit.
* Practice Problems
  + 14m/s to km/hr
  + 540μm to m
  + 1.3 Mm to cm
  + 105 cm/s to km/min