Chapter 1

SI units

SI prefixes

Measurements

SI Base unit

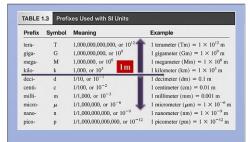
(7 units in the table)

SI Derived units

Volume Area

Density

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- Memorize the different prefixes and their meanings
- Converting between SI prefixes, examples

 $nm \rightarrow Gm$

 Different methods to convert between units, you need just one method

Mass

SI unit = kg 1000 g = 1 kg

Density

SI derived unit = kg/m³
Common unit:

 $g/L = kg/m^3$

g/cm³=g/ml=1000 kg/m³

Volume:

SI derived unit = m^3

Common unit:

 $dm^3 = L = 1x10^{-3} m^3$

 $cm^3 = ml = 1x10^{-6} m^3$

Temperature:

SI unit = K

common unit: F, °C

K= °C +273.15

 $^{\circ}F = 9/5 \times ^{\circ}C + 32$

 $^{\circ}C = 5/9 \times (^{\circ}F - 32)$