

## Conversion Factors

<u>Length (meter)</u>		
1 m = 1.09 yds	1 yd = 3 ft	1 mi = 5280 ft
1 mi = 1760 yd	1 m = 39.37 in	1 in = 2.54 cm
	12 in = 1 ft	

<u>Mass (kilogram)</u>		
1 kg = 2.21 lbs	1 lb = 453.6 g	1 lb = 16 oz

<u>Time(second)</u>		
1 min = 60 sec	1 hr = 60 min	1 day = 24 hrs

<u>Temperature(Kelvin)</u>		
0 K = -273 °C	0 K = -460 °F	1 C° = 1 K
5 C° = 9 F°		5 K = 9 F°

Amount of Substance  
1 mole =  $6.022 \times 10^{23}$

<u>Volume(cubic meter)</u>		
1 L = 1 dm <sup>3</sup>	1 in <sup>3</sup> = 16.4 cm <sup>3</sup>	1 L = 1.06 qt
1 cm <sup>3</sup> = 1 mL	1 gal = 4 qts	1 qt = 2 pints
	1 pint = 2 cups	

Pressure Pascal (Pa)  
1 atm = 1 bar = 101,325 Pa = 101.32 kPa = 760 mm Hg = 760 torr = 14.70 lb/in<sup>2</sup>

Energy(Joule)  
1 calorie = 4.184 J

## Metric Prefixes

exa	1,000,000,000,000,000,000
	100,000,000,000,000,000
	10,000,000,000,000,000
peta	1,000,000,000,000,000
	100,000,000,000,000
	10,000,000,000,000
tera	1,000,000,000,000
	100,000,000,000
	10,000,000,000
giga	1,000,000,000
	100,000,000
	10,000,000
mega	1,000,000
	100,000
	10,000
kilo	1,000
hecto	100
deka	10
unit	1
deci	0.1
centi	0.01
milli	0.001
	0.000 1
	0.000 01
micro	0.000 001
	0.000 000 1
	0.000 000 01
nano	0.000 000 001
	0.000 000 000 1
	0.000 000 000 01
pico	0.000 000 000 001
	0.000 000 000 000 1
	0.000 000 000 000 01
femto	0.000 000 000 000 001
	0.000 000 000 000 000 1
	0.000 000 000 000 000 01
atto	0.000 000 000 000 000 001