Some Basic Concepts of Chemistry

```
1.66056 X 10 24 gram
                                               Velocity
                                                              1 amu
              Distance
     Velocity =
                                  Accelenation =
               time
                                                                       atomic mass unit
               Mass
                                             Fonce
     density =
                                  Pnessure =
               Volume
                                                                      · Fonenheit
                                                  °C + 273.15
                     = 9(^{\circ}C) + 32
                                                                    °C . Celsius
Tempenature
                                                                     K = Kelvin
                                     Weight (in grams)
    Number of grams of atoms =
                                     gram atomic mass
                                                                                X = Multiply
    Molecular Mass (Ax BCy) = xx [Atomic mass of A] + [Atomic mass of B] + y x [Atomic mass of C]
                      OR
                       Actual mass of a molecule of matter
    Moleculan Mass =
                            1 x mass of one C12 atom
                           Mass (in grams)
    Gram Molecular No. = -
                           Molecular weight
                                                                 the element
                                             atomic weight of
    Equivalent weight of the element
                                                        valency
                                                 formula
                                                          weight of salt
    Equivalent weight of common salt =
                                              total change on the cationic part
                                                    formula weight of salt
    Equivalent weight of acidic salt =
                                              Displaceable H- atom present in salt
                                         Molecular weight
                                                            of acid
    Equivalent weight of acid =
                                        No. of Htions in a molecule
                                          Molecular weight of Base
    Equivalent weight of Base =
                                               OH ions
                                                         given by a molecule
                                                             Molecular weight = 2 x Vapour density
                                   Mass (in gnams)
    Gram Equivalent
                       weight =
                                   Equivalent weight
                      A = atomic weight
                                                           Molecular formula weight
                      E - Equivalent weight
                                                          Empirical
                                                                   formula weight
                      V = Valency
                                                             n = Integen (1, 2, 3, 4...)
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formula mass of AB = Atomic mass of A + Atomic mass of B



Pencentage composition = Mass of the element in the compound x 100 Molan mass of the compound



Mass Pencentage =



Mole fnaction

Mole fraction of A =
$$\frac{No. of moles of A}{No. of moles of solution} = \frac{n_A}{n_A + n_B}$$

Mole fraction of
$$B = \frac{No. \text{ of moles of } B}{No. \text{ of moles of solution}} = \frac{n_B}{n_A + n_B}$$

The sum of the mole fractions of all the components of a solution is always the unit.







