Combined Foundation

 $1dm^3 = 1000cm^3$

Percentage mass = <u>Mass of element</u> X 100 Formula Mass

Conc. = $\frac{\text{Mass of substance (g)}}{\text{Volume of solvent (dm}^3)}$

Combined Higher

Moles = <u>Mass(g)</u>
Formula Mass

Conc. = Amount of solute (mol)

Volume of solvent (dm³)

Avogadro's Constant: 1 mole = 6.02x10²³ molecules /particles / ions

Separate Foundation

% Yield = <u>The mass you get</u> X 100

Theoretical yield

atom economy = molecular mass of the desired product sum of molecular masses of all reactants

Separate Higher

Moles of a gas = $\frac{\text{Volume in dm}^3}{24}$

Titration calculations using the mole and concentration equations