Formula	Variables and Units	Applies to
$n = \frac{m}{M}$	n = moles (mol) m = mass (g) M = molar mass $(\frac{g}{mol})$	solids
$n = \frac{N}{N_a}$	n = moles (mol) N = number of particles (atoms/molecules/formula units) N <sub>a</sub> = Avogadro's constant	Solids/liquids/gases
$C = \frac{n}{V}$	n = moles (mol) $C = \text{amount concentration } \left(\frac{mol}{L}\right)$ $V = \text{volume (L)}$	solutions
PV = nRT	P = pressure (kPa) V = volume (L) n = moles (mol_ R = universal gas constant (8.314 (\frac{kPa.L}{mol.K})) T = temperature (K)	gases