The Ideal Gas Law

- \bullet P V = N k_B T
 - \rightarrow P = pressure in N/m² (or Pascals)
 - \rightarrow V = volume in m³
 - \rightarrow N = number of molecules
 - \rightarrow T = absolute temperature in K
 - \rightarrow k_B = Boltzmann's constant = 1.38 x 10⁻²³ J/K
 - → Note: P V has units of N-m or J (energy!)



- \rightarrow n = number of moles
- \rightarrow R = ideal gas constant = $N_A k_B = 8.31 \text{ J/mol/K}$



