

CONSTANTS

Description	Value
Acceleration of gravity on Earth (g)	9.8 m/s ²
Speed of light in a vacuum (c)	3.00×10^8 m/s
Planck's constant (h)	6.63×10^{-34} J•s = 4.14×10^{-15} eV•s
Electron rest mass	9.11×10^{-31} kg
Proton rest mass	1.67×10^{-27} kg
Charge of electron	-1.60×10^{-19} C
Coulomb's constant (k_e)	9.0×10^9 N•m ² /C ²
Boltzmann's constant (k)	1.38×10^{-23} J/K
Gas constant (R)	8.31 J/(mol•K)
Gravitational constant (G)	6.67×10^{-11} N•m ² /kg ²
Permeability of free space (μ_0)	$4\pi \times 10^{-7}$ T•m/A
Permittivity of free space (ϵ_0)	8.85×10^{-12} C ² /(N•m ²)
Avogadro's number	6.02×10^{23} particles/mole