

IB Physics SL & HL Formula Sheet

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Fundamental Constants		
Symbol	Quantity	Approximate value
c	Free space (vacuum) speed of light	$3.00 \times 10^8 \text{ m s}^{-1}$
G	Gravitational constant	$6.67 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$
M_p	Proton mass	$1.67 \times 10^{-27} \text{ kg}$
m_e	Electron mass	$9.11 \times 10^{-31} \text{ kg}$
μ_0	Permeability of free space	$4\pi \times 10^{-7} \text{ N A}^{-2}$
ϵ_0	Permittivity of free space	$8.85 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$
\hbar	Reduced Planck constant	$1.05 \times 10^{-34} \text{ J s}$
h	Planck constant	$6.63 \times 10^{-34} \text{ J s}$
k_B	Boltzmann constant	$1.38 \times 10^{-23} \text{ J K}^{-1}$
R	Gas constant	$8.31 \text{ J K}^{-1} \text{ mol}^{-1}$
N_A	Avogadro constant	$6.02 \times 10^{23} \text{ mol}^{-1}$
μ_0	Permeability of free space	$4\pi \times 10^{-7} \text{ N A}^{-2}$
ϵ_0	Permittivity of free space	$8.85 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$
e	Elementary charge	$1.60 \times 10^{-19} \text{ C}$
m_p	Proton mass	$1.67 \times 10^{-27} \text{ kg}$
m_e	Electron mass	$9.11 \times 10^{-31} \text{ kg}$
μ_0	Permeability of free space	$4\pi \times 10^{-7} \text{ N A}^{-2}$
ϵ_0	Permittivity of free space	$8.85 \times 10^{-12} \text{ C}^2 \text{ N}^{-1} \text{ m}^{-2}$
R	Gas constant	$8.31 \text{ J K}^{-1} \text{ mol}^{-1}$
N_A	Avogadro constant	$6.02 \times 10^{23} \text{ mol}^{-1}$

Metric Prefixes			
Symbol	Prefix	Value	
p	pico-	10^{-12}	
n	nano-	10^{-9}	
μ	micro-	10^{-6}	
m	milli-	10^{-3}	
c	centi-	10^{-2}	
d	deci-	10^{-1}	
D	deca-	10^1	
H	hecto-	10^2	
k	kilo-	10^3	
M	mega-	10^6	
G	giga-	10^9	
T	tera-	10^{12}	

Geometry and Trigonometry Equations	
Circumference (circle)	$C = 2\pi r$
Area (rectangle)	$A = \frac{1}{2}ab$
Area (circle)	$A = \pi r^2$
Curved surface area (cylinder)	$A = 2\pi rh$
Surface area (sphere)	$A = 4\pi r^2$
Volume (sphere)	$V = \frac{4}{3}\pi r^3$
Volume (cylinder)	$V = \pi r^2 h$
Volume (cone)	$V = \frac{1}{3}\pi r^2 h$
Volume (pyramid)	$V = \frac{1}{3}Ab$
Volume (prism)	$V = Ab$
Trigonometric relationships	$\sin^2 \theta + \cos^2 \theta = 1$
Vector Components	$A_x = A \cos \theta$ $A_y = A \sin \theta$ A_x is the horizontal component of vector A , A_y is the vertical component of vector A , θ is the angle relative to the horizontal.

Unit Conversions	
1 year (yr)	$\frac{365 \text{ d}}{\text{yr}}$
Temperature (K)	$T(\text{K}) = T(^{\circ}\text{C}) + 273$
1 light year (ly)	$9.46 \times 10^{15} \text{ m}$
1 parsec (pc)	3.26 ly
1 astronomical unit (AU)	$1.50 \times 10^{11} \text{ m}$
1 AU (Earth-Sun)	$1.50 \times 10^{11} \text{ m}$
m	$1.00 \times 10^{-10} \text{ m} = 1.00 \times 10^{-8} \text{ cm}$

Uncertainty Calculations	
Addition and Subtraction	$\Delta x = a \pm b$ $\Delta x = \Delta a + \Delta b$
Multiplication and Division	$\Delta x = \frac{\Delta a}{a}$ $\Delta x = \frac{\Delta a}{a} + \frac{\Delta b}{b} + \frac{\Delta c}{c}$
Exponentiation	$\Delta x = a^n$ $\Delta x = n \left(\frac{\Delta a}{a} \right)$

Where a, b, c and n are quantities with absolute uncertainties $\Delta a, \Delta b, \Delta c$ and Δx

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