

Physics Formula Sheet

6.	Amount of Substance	mole; mol	N_A molecules = 1 mol	$[M^0 L^0 T^0 n^1]$
7.	Luminous Intensity	candela; cd	watts per steradian; W/sr	$[M^0 L^0 T^0 C^1]$

● Other base units: I. Plane angle: θ : unit: radian

II. Solid angle: Ω : Unit: steradian

● Distance by Parallax: $D = b/\theta$

● Errors: Absolute: $\Delta a = a - a_{real}$

II. Relative: $\Delta a/a_{real}$

III. Percentage: $(\Delta a/a_{real}) \times 100\%$

● Combination of Error:

I. Sum and Difference: $Z = A \pm B$; $\Delta Z = \Delta A + \Delta B$

II. Product and Division: $Z = \frac{A^a B^b}{C^c}$; $\frac{\Delta Z}{Z} = a \frac{\Delta A}{A} + b \frac{\Delta B}{B} + c \frac{\Delta C}{C}$

● Combination of Significant figures:

I. Sum or Difference: Answer: highest no. of significant figures.

II. Product or Division: Answer has least no. of s.f.

● Vector Notation: $\vec{a} = a_x \hat{i} + a_y \hat{j} + a_z \hat{k}$

I. Magnitude: $a = |\vec{a}| = \sqrt{a_x^2 + a_y^2 + a_z^2}$

II. Direction: $\hat{a} = \frac{\vec{a}}{|\vec{a}|} = \frac{a_x \hat{i} + a_y \hat{j} + a_z \hat{k}}{\sqrt{a_x^2 + a_y^2 + a_z^2}}$

● Dot product: $\vec{a} \cdot \vec{b} = ab \cos \theta = a_x b_x + a_y b_y + a_z b_z = \sum a_i b_i$

● Cross product: $\vec{a} \times \vec{b} = ab \sin \theta \hat{n}$

Direction: $\hat{n} = \frac{\vec{a} \times \vec{b}}{|\vec{a} \times \vec{b}|}$; $|\hat{n}| = 1$

● Addition of Vectors: $\vec{R} = \vec{P} + \vec{Q}$

I. Resultant magnitude: $|\vec{R}| = |\vec{P} + \vec{Q}|$

$$|\vec{R}| = \sqrt{P^2 + Q^2 + 2PQ \cos \theta}$$

II. Direction of $\vec{R}$: $\alpha = \tan^{-1} \left(\frac{Q \sin \theta}{P + Q \cos \theta} \right)$

● Components of a Vector:

I. Horizontal component: $A_x = |\vec{A}| \cos \theta$

II. Vertical component: $A_y = |\vec{A}| \sin \theta$

● Equilibrium condition in 1D: $\sum \vec{A}_i = 0$

● Equilibrium in 2D systems: $\sum A_{xi} = 0$; $\sum A_{yi} = 0$



Unit II: Kinematics of a Body:

NewtonDesk.com

● Kinematics: Motion in Line (1D) + Motion in plane (2D)

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