

# 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	$9.11 \times 10^{-31} \text{ kg}$
$h$	Planck's 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	$8.31 \text{ J K}^{-1} \text{ mol}^{-1}$
$\mu_0$	Free space permeability	$4\pi \times 10^{-7} \text{ T m A}^{-1}$
$\epsilon_0$	Free space permittivity	$8.85 \times 10^{-12} \text{ C}^2 \text{ J}^{-1} \text{ m}^{-1}$
$\rho$	Density of water at 4°C	$1.00 \times 10^3 \text{ kg m}^{-3}$
$\sigma$	Stefan-Boltzmann constant	$5.67 \times 10^{-8} \text{ W m}^{-2} \text{ K}^{-4}$
$\mu_B$	Bohr magneton	$9.27 \times 10^{-24} \text{ J T}^{-1}$
$m_p$	Proton rest mass	$1.67 \times 10^{-27} \text{ kg} = 938 \text{ MeV } c^{-2} = 1.836 \times 10^{-30} \text{ t}$
$m_e$	Electron rest mass	$9.11 \times 10^{-31} \text{ kg} = 0.511 \text{ MeV } c^{-2} = 5.486 \times 10^{-32} \text{ t}$
$\alpha$	Unified atomic mass unit	$1.66 \times 10^{-27} \text{ kg} = 931.5 \text{ MeV } c^{-2}$
$R$	Gas constant (at earth's surface)	$8.31 \text{ J K}^{-1} \text{ mol}^{-1}$
$R_0$	Reed's constant	$1.00 \times 10^{11} \text{ m}$

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

Geometry and Trigonometry Equations	
Circumference (circle)	$C = 2\pi r$
Area (triangle)	$A = \frac{1}{2}bh$
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 (parabola)	$V = \frac{1}{3}bh$
Volume (cube)	$V = s^3$
Trigonometric relationships	$\sin^2 \theta + \cos^2 \theta = 1$ $\tan \theta = \frac{\sin \theta}{\cos \theta}$
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 $A$ , $\theta$ 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)	$3.26 \text{ ly}$
1 astronomical unit (AU)	$1.50 \times 10^{11} \text{ m}$
1 fathom (fath)	$1.83 \times 10^3 \text{ m}$
$\text{m}^3$	$1.36 \times 10^{-6} \text{ km}^3 = 1.36 \times 10^{-9} \text{ km}^3 \text{ L}$

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

where  $a, b, n$  are only one quantity with absolute uncertainties  $\Delta a, \Delta b, \Delta a$  and  $\Delta b$

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Learning and Understanding National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Committee on Programs for Advanced Study of Mathematics and Science in American High Schools, 2002-08-06 This book takes a fresh look at programs for advanced studies for high school students in the United States with a particular focus on the Advanced Placement and the International Baccalaureate programs and asks how advanced studies can be significantly improved in general It also examines two of the core issues surrounding these programs they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher education By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs this report provides teachers parents curriculum developers administrators college science and mathematics faculty and the educational research community with a detailed assessment that can be used to guide change within advanced study programs The SAGE Handbook of Research in International Education Mary Hayden, Jack Levy, Jeff Thompson, 2015-10-13 The landscape of international education has changed significantly in the last ten years and our understanding of concepts such as international global and multicultural are being re evaluated Fully updated and revised and now including new contributions from research in South East Asia the Middle East China Japan Australasia and North America the new edition of this handbook analyses the origins interpretations and contributions of international education and explores key contemporary developments including internationalism in the context of teaching and learning leadership standards and quality in institutions and systems of education the promotion of internationalism in national systems This important collection of research is an essential resource for anyone involved in the practice and academic study of international education including researchers and teachers in universities governmental and private curriculum development agencies examination authorities administrators and teachers in schools **The Complete Guide to International Schools in Thailand, 1997-98** Jennie Sharples, 1997 **Teaching Chinese Language in the International School Context** Jia-Fei Hong, Chung-Mou SI, 2023-11-29 This book explores the learning and teaching of K 12 Chinese language in international schools The authors of this book are scholars from teaching training institutions and universities as well as professional frontline teachers With a combination of the works and insights from both perspectives of theory and practice the book presents how theories of teaching can be operated in classroom to improve the effectiveness of language teaching It covers curriculum setting design of teaching materials teaching principles methods strategies and evaluation The book also discusses issues and concepts such as concept driven learning identity change and recognition of L1 and L2 Chinese teacher pinyin teaching Chinese character teaching evaluation for learning improvement and integration of South Asian non Chinese speaking students into local schools It emphasizes empirical action research methods This is a highly informative and carefully presented book providing high value insights to scholars from university and teacher

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*Educational Review* Nicholas Murray Butler, Frank Pierrepont Graves, William McAndrew, 1904 Vols 19 34 include Bibliography of education for 1899 1906 compiled by James I Wyer and others Catalogue Museum of the History of Education (University of Leeds), 1980 The Johns Hopkins University circular ,1893 The Johns Hopkins University Circular Johns Hopkins University, 1892 Includes University catalogues President s report Financial report etc

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