

0.1: Physical Constants

Speed of light	c	$3 \times 10^8 \text{ m/s}$
Planck constant	h	$6.63 \times 10^{-34} \text{ J s}$
	hc	1242 eV-nm
Gravitation constant	G	$6.67 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$
Boltzmann constant	k	$1.38 \times 10^{-23} \text{ J/K}$
Molar gas constant	R	8.314 J/(mol K)
Avogadro's number	N_A	$6.023 \times 10^{23} \text{ mol}^{-1}$
Charge of electron	e	$1.602 \times 10^{-19} \text{ C}$
Permeability of vacuum	μ_0	$4\pi \times 10^{-7} \text{ N/A}^2$
Permittivity of vacuum	ϵ_0	$8.85 \times 10^{-12} \text{ F/m}$
Coulomb constant	$\frac{1}{4\pi\epsilon_0}$	$9 \times 10^9 \text{ N m}^2/\text{C}^2$
Faraday constant	F	96485 C/mol
Mass of electron	m_e	$9.1 \times 10^{-31} \text{ kg}$
Mass of proton	m_p	$1.6726 \times 10^{-27} \text{ kg}$
Mass of neutron	m_n	$1.6749 \times 10^{-27} \text{ kg}$
Atomic mass unit	u	$1.66 \times 10^{-27} \text{ kg}$
Atomic mass unit	u	$931.49 \text{ MeV}/c^2$
Stefan-Boltzmann constant	σ	$5.67 \times 10^{-8} \text{ W/(m}^2 \text{ K}^4)$
Rydberg constant	R_∞	$1.097 \times 10^7 \text{ m}^{-1}$
Bohr magneton	μ_B	$9.27 \times 10^{-24} \text{ J/T}$
Bohr radius	a_0	$0.529 \times 10^{-10} \text{ m}$
Standard atmosphere	atm	$1.01325 \times 10^5 \text{ Pa}$
Wien displacement constant	b	$2.9 \times 10^{-3} \text{ m K}$

1.1: Vectors

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

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

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

Cross product:



$$\vec{a} \times \vec{b} = (a_y b_z - a_z b_y) \hat{i} + (a_z b_x - a_x b_z) \hat{j} + (a_x b_y - a_y b_x) \hat{k}$$

$$|\vec{a} \times \vec{b}| = ab \sin \theta$$

1.2: Kinematics

Average and Instantaneous Vel. and Accel.:

$$\vec{v}_{av} = \Delta \vec{r} / \Delta t$$

$$\vec{a}_{av} = \Delta \vec{v} / \Delta t$$

$$\vec{v}_{inst} = d\vec{r}/dt$$

$$\vec{a}_{inst} = d\vec{v}/dt$$

Motion in a straight line with constant a :

$$v = u + at, \quad s = ut + \frac{1}{2}at^2, \quad v^2 - u^2 = 2as$$

Relative Velocity: $\vec{v}_{A/B} = \vec{v}_A - \vec{v}_B$

Projectile Motion:



$$x = ut \cos \theta, \quad y = ut \sin \theta - \frac{1}{2}gt^2$$

$$y = x \tan \theta - \frac{g}{2u^2 \cos^2 \theta} x^2$$

$$T = \frac{2u \sin \theta}{g}, \quad R = \frac{u^2 \sin 2\theta}{g}, \quad H = \frac{u^2 \sin^2 \theta}{2g}$$

1.3: Newton's Laws and Friction

Linear momentum: $\vec{p} = m\vec{v}$

Newton's first law: inertial frame.

Newton's second law: $\vec{F} = \frac{d\vec{p}}{dt}$, $\vec{F} = m\vec{a}$

Newton's third law: $\vec{F}_{AB} = -\vec{F}_{BA}$

Frictional force: $f_{static, max} = \mu_s N$, $f_{kinetic} = \mu_k N$

Banking angle: $\frac{v^2}{rg} = \tan \theta$, $\frac{v^2}{rg} = \frac{\mu + \tan \theta}{1 - \mu \tan \theta}$

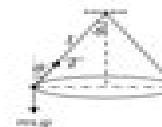
Centripetal force: $F_c = \frac{mv^2}{r}$, $a_c = \frac{v^2}{r}$

Pseudo force: $\vec{F}_{pseudo} = -m\vec{a}_0$, $F_{centrifugal} = -\frac{mv^2}{r}$

Minimum speed to complete vertical circle:

$$v_{min, bottom} = \sqrt{5gl}, \quad v_{min, top} = \sqrt{gl}$$

Conical pendulum: $T = 2\pi \sqrt{\frac{l \cos \theta}{g}}$



1.4: Work, Power and Energy

Work: $W = \vec{F} \cdot \vec{S} = FS \cos \theta$, $W = \int \vec{F} \cdot d\vec{S}$

Kinetic energy: $K = \frac{1}{2}mv^2 = \frac{p^2}{2m}$

Potential energy: $F = -\partial U / \partial x$ for conservative forces.

$$U_{gravitational} = mgh, \quad U_{spring} = \frac{1}{2}kx^2$$

Work done by conservative forces is path independent and depends only on initial and final points:
 $\oint \vec{F}_{conservative} \cdot d\vec{r} = 0$.

Work-energy theorem: $W = \Delta K$

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Zhe Xu



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schools and students interests and needs The contributors are experts in STEM education or are leading major research and development projects in STEM in their regions The book s first section is focused at the macro level on the conceptualization and formulation of STEM education policies in different regions contributing to our understanding of the current status of STEM education in Asia The second section examines some features of STEM learning and teaching at the classroom level and includes studies on student learning in STEM programmes Pedagogical innovations implemented in different parts of Asia are also reported and discussed The third section moves to teacher education and teacher professional development It discusses practices of teacher professional development in the region and reports on current provisions as well as challenges Together the contributions from different Asian regions invite researchers and educators to learn from effective STEM practices and point out areas for further development Chapters An Overview of STEM Education in Asia and STEM Teacher Professional Development for Primary School Teachers in Hong Kong are available open access under a CC BY 4 0 license at link.springer.com [Adaptive Technologies for Training and Education](#) Paula J. Durlach (Ed), Alan M. Lesgold, 2012-02-20 This volume provides an overview of the latest advancements in computer based education training that use student performance data to provide adaptive and hence more efficient individualized learning opportunities Provided by publisher

Effective Study Methods Mason Ross, AI, 2025-02-22 Effective Study Methods explores how to learn smarter not harder by applying cognitive psychology principles to enhance retention and comprehension It challenges traditional study habits advocating for evidence based learning strategies such as active recall spaced repetition and elaborative interrogation Did you know that active recall testing yourself instead of rereading strengthens memory pathways Or that spaced repetition reviewing material at increasing intervals optimizes long term retention by leveraging the forgetting curve This book uniquely bridges academic research and practical application offering concrete techniques and personalized guidance It avoids generic advice providing actionable strategies for students and lifelong learners The book begins by laying a cognitive foundation then dedicates individual chapters to active recall spaced repetition and elaborative interrogation culminating in a cohesive study system applicable across diverse subjects It underscores that effective studying stems from employing strategies aligned with how the brain learns best The book s value lies in its structured evidence based approach drawing insights from neuroscience and information science It demonstrates how to move information from short term to long term memory creating a robust knowledge base By demonstrating techniques applicable to professional training skill development and personal enrichment the book empowers readers to become lifelong learners *Child Psychology* Robin Harwood, Scott A. Miller, Ross Vasta, 2008-01-03 This new fifth edition captures the excitement and relevance of child psychology at the beginning of the 21st century a theme that is exemplified in the text s new subtitle *Child Development in a Changing Society* In addition to extensive research coverage each chapter includes an additional section that relates the chapter subject to social and cultural contexts or implications of research for social policy public practice or societal change This new edition

places children child development and the contexts in which development occurs at the center of the discourse Thus this edition has a strong balance of theory research and real world application **Science** ,1923 Vols for 1911 13 contain the Proceedings of the Helminothological Society of Washington ISSN 0018 0120 1st 15th meeting **Principles of General Psychology** Gregory A. Kimble,Norman Garnezy,1968 **How Students Learn** National Research Council,Division of Behavioral and Social Sciences and Education,Committee on How People Learn, A Targeted Report for Teachers,2004-12-23

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