

Useful Formulae in Advanced Level Physics

A1.	$a = \frac{v^2}{r} = \omega^2 r$	centripetal acceleration
A2.	$a = \omega^2 x$	simple harmonic motion
A3.	$L = I\omega$	angular momentum of a rigid body
A4.	$T = \frac{dL}{dt}$	torque on a rotating body
A5.	$E = \frac{1}{2} I \omega^2$	energy stored in a rotating body
B1.	$v = \sqrt{\frac{T}{m}}$	velocity of transverse wave motion in a stretched string
B2.	$v = \sqrt{\frac{E}{\rho}}$	velocity of longitudinal wave motion in a solid
B3.	$n = \tan \theta_p$	refractive index and polarizing angle
B4.	$d = \frac{\lambda D}{a}$	fringe width in double-slit interference
B5.	$d \sin \theta = n\lambda$	diffraction grating equation
B6.	$f' = f \left(\frac{v + u_o}{v - u_s} \right)$	Doppler frequency
B7.	$10 \log_{10} \left(\frac{I_2}{I_1} \right)$	definition of the decibel
C1.	$F = \frac{Gm_1 m_2}{r^2}$	Newton's law of gravitation
C2.	$V = \frac{GM}{r}$	gravitational potential
C3.	$r^3 / T^2 = \text{constant}$	Kepler's third law
C4.	$E = \frac{Q}{4\pi\epsilon_0 r^2}$	electric field due to a point charge
C5.	$V = \frac{Q}{4\pi\epsilon_0 r}$	electric potential due a point charge

General Certificate Of Education Advanced Level Physics Formula Sheet

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General Certificate Of Education Advanced Level Physics Formula Sheet:

Excelling in A-level Physics Stathis Stefanidis, 2017-11-24 The book covers the requirements for the A level exams on Circular Motion The theory is presented in a structured way in the form of Questions and Answers Using simple steps explanations practice exercises and tests you will be supported to develop your understanding of this thematic unit The book includes plenty of Solved problems Multiple choice questions Conceptual questions Fill in the gaps True or False statements Written by an experienced teacher the book offers a unique and innovative way of approaching learning and excelling in your A level Physics exams Education for All Children United States. Congress. House. Appropriations, 1962 **Hearings** United States. Congress. Senate. Committee on Labor and Public Welfare, 1963 Hearings United States. Congress. House, 1962 Hearings United States. Congress Senate, 1963 **Education Legislation--1963, Hearings...88-1** United States. Congress. Senate. Labor and Public Welfare, 1963 **Education Legislation, 1963** United States. Congress. Senate. Committee on Labor and Public Welfare, 1963 Hearings United States. Congress. House. Committee on Appropriations, 1961 Education Legislation, 1963 United States. Congress. Senate. Committee on Labor and Public Welfare. Subcommittee on Education, 1963 **Foreign Operations Appropriations for 1964** United States. Congress. House. Committee on Appropriations, 1962 **The Social Purposes of Education** K.G. Collier, 2013-11-05 First Published in 1998 This is Volume XXIV of twenty eight in the Sociology of Education series This book seeks to provide an introduction and guide to social psychology of education looking at schools as a social space Written in 1959 it is addressed primarily to teachers and student teachers taking in moral and social aspects of personality and not seeing schools as being for just academic instruction *The Navy List* , 1964 Education Legislation, 1963 United States. Congress. Senate. Committee on Labor and Public Welfare. Subcommittee on Education, 1963 **Tribune** , 1975-11 British Journal of Applied Physics , 1958 **Transactions - Institute of Marine Engineers** Institute of Marine Engineers, 1953 Includes Annual report Higher Education Journal , 1951 **Transactions** Institute of Marine Engineers, 1956 Includes Annual report Annual Report and Financial Statement and Minutes of Annual Meeting Institute of Marine Engineers, 1953 Includes Annual report Resources in Education , 1994

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