

AQA GCSE Physics – Equations & Formulae (specification 8463 & 8464)

Unit 1: Energy

Equations to Learn	
kinetic energy = $\frac{1}{2} \times \text{mass} \times \text{speed}^2$	$E_k = \frac{1}{2}mv^2$
GPE = mass \times gravitational field strength \times height	$E_p = mgh$
power = $\frac{\text{work done}}{\text{time taken}} = \frac{\text{energy transferred}}{\text{time taken}}$	$P = \frac{W}{t} = \frac{E}{t}$
efficiency = $\frac{\text{useful energy output}}{\text{total energy input}}$	
efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
Equations often in the exam	
elastic potential energy = $0.5 \times \text{spring constant} \times (\text{extension})^2$	$E_e = \frac{1}{2}kx^2$
change in thermal energy = mass \times specific heat capacity \times temperature change	$\Delta E = mc\Delta\theta$

Unit 2: Electricity

Equations to Learn	
charge flow = current \times time	$Q = It$
potential difference = current \times resistance	$V = IR$
total resistance = resistance of component 1 + resistance of component 2	$R_t = R_1 + R_2$
power = current \times potential difference	$P = IV$
power = (current) 2 \times resistance	$P = I^2R$
energy transferred = power \times time	$E = Pt$
energy transferred = charge flow \times potential difference	$E = QV$

* Higher tier only

* Separate Physics only

Unit 3: Particle Model of Matter

Equations to Learn	
density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$
Equations often in the exam	
change in thermal energy = mass \times specific heat capacity \times temperature change	$\Delta E = mc\Delta\theta$
thermal energy for a change in state = mass \times specific latent heat	$E = mL$
* for a gas, pressure \times volume = constant	$pV = \text{constant}$

Unit 6: Waves

Equations to Learn	
wave speed = frequency \times wavelength	$v = f\lambda$
Equations often in the exam	
time period = $\frac{1}{\text{frequency}}$	$T = \frac{1}{f}$
* magnification = $\frac{\text{image height}}{\text{object height}}$	$M = \frac{h_{\text{image}}}{h_{\text{object}}}$

Unit 7: Magnetism and Electromagnetism

Equations often in the exam	
* Force = magnetic flux density \times current \times length of conductor in magnetic field	$F = BIl$
$\frac{\text{potential difference across primary coil}}{\text{potential difference across secondary coil}} = \frac{\text{number of turns in primary coil}}{\text{number of turns in secondary coil}}$	$\frac{V_p}{V_s} = \frac{N_p}{N_s}$
* * p.d. across primary \times current in primary = p.d. across secondary \times current in secondary	$V_p I_p = V_s I_s$

Unit 5: Forces

Equations to Learn	
weight = mass \times gravitational field strength	$W = mg$
work done = force \times distance (moved along the line of action of the force)	$W = Fs$
force = spring constant \times extension	$F = kx$
moment of a force = force \times distance (perpendicular to the direction of the force)	$M = Fd$
pressure = $\frac{\text{force normal to a surface}}{\text{area of that surface}}$	$P = \frac{F}{A}$
distance travelled = speed \times time	$s = vt$
acceleration = $\frac{\text{change in velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$
$= \frac{\text{final velocity} - \text{initial velocity}}{\text{time taken}}$	$= \frac{v - u}{t}$
resultant force = mass \times acceleration	$F = ma$
* momentum = mass \times velocity	$p = mv$
Equations often in the exam	
* * Pressure = height of column \times density of liquid \times gravitational field strength	$p = h\rho g$
* final velocity 2 - (initial velocity) 2 = 2 \times acceleration \times distance	$v^2 - u^2 = 2as$
* * Force = $\frac{\text{change in momentum}}{\text{time taken}}$	$F = \frac{m\Delta v}{t}$

Unit 4: Atomic Structure & Unit 8: Space

There are no equations in these sections of the course

As Level Physics A

G Psacharopoulos



As Level Physics A:

International A/As Level Physics Chris Mee, Mike Crundell, Brian Arnold, Wendy Brown, 2008-01-25 International A AS Level Physics has been carefully prepared for the University of Cambridge International Examinations course for A and AS Level Physics 9702 The book covers the main theoretical concepts and current applications of physics and has a strong emphasis on the required practical skills Fostering creative thinking and problem solving it provides an excellent resource for those wishing to study physics at university level or to follow a career in science The author team includes experienced examiners and teachers who have worked together to ensure that the material is approachable to students from the very start of their course and gives them all the guidance and information needed to enable them to face their exams with confidence

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Cambridge AS Level Physics 9702 Azhar ul Haque Sario, 2026-01-05 Unlock the secrets of the universe and master the 2026 syllabus with a physics guide that actually speaks your language This book is a comprehensive journey through the entire Cambridge AS Level Physics 9702 syllabus for the 2026 exams You will start with the very language of the universe You will master physical quantities and the new 2026 SI unit standards You will move into kinematics and learn to predict motion You will explore dynamics and Newton

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Cambridge International AS and a Level Physics 2nd Ed Mike Crundell,Geoff Goodwin,Chris Mee,Brian Arnold,2014-08-29 Clear coverage of the latest specification from an experienced author team of examiners and teachers plus a free Student s CD ROM This new edition follows the syllabus exactly and is written in two parts reflecting the AS and A Level section division of the syllabus Improves exam performance with annotated sample exam answers at three levels Offers additional support on a Student s CD ROM included with every book Provides opportunities for self assesment with worked examples and consolidation questions The Student s CD ROM features interactive tests topic summaries key terms additional questions a revision checklist for each topic informations and advice in revision planning Answers to the questions in the Student s Book can be found on the Teacher s CD Rom *Which A levels? 2019* Alison Dixon,2019-05-28 Making the right choice of A levels is crucial Not only will it affect your enjoyment of studying over the next two years but it also has implications for your choice of career further training or higher education options The tenth edition of this student friendly guide has been revised and updated and includes study and employment options after 16 as well as at degree level It also contains information on apprenticeships an increasingly popular alternative to full time higher education Each subject entry covers What and how you study Which A levels fit well together for competitive courses and careers Related higher education courses Career and training options after A levels and degree courses Alternative qualifications such as the International Baccalaureate A-level Physics Critical Guide (Concise) (Yellowreef) Thomas Bond,Chris Hughes,2013-11-04 candidates tutors must have noticed that the exam questions has gone towards tertiary year 1 level yet the syllabus does not reflect this change we have made the necessary inclusion provides the critical guide to lead one through this highly demanding knowledge requirement total exam compatibility in notes and examples exact and accurate definitions most efficient method of learning hence saves time advanced trade book Complete edition and concise edition eBooks available *The Navy List* Great Britain. Ministry of Defence,1971 **The Routledge Companion to Philosophy of Physics** Eleanor Knox,Alastair Wilson,2021-09-28 The Routledge Companion to Philosophy of Physics is a comprehensive and authoritative guide to the state of the art in the philosophy of physics It comprises 54 self contained chapters written by leading philosophers of physics at both senior and junior levels making it the most thorough and detailed volume of its type on the market nearly every major perspective in the field is represented The Companion s 54 chapters are organized into 12 parts The first seven

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As Physics Revision Guide Amy Boutal,2008-06-01 Suitable for all AS Physics courses this book includes revision notes test questions and exam practice sections It offers a way for students to support their studies in the course and to prepare themselves in the run up to the exams

Science on the Ropes Carlos Elías,2019-05-15 In this controversial essay Carlos El as addresses the worldwide phenomenon that is threatening the scientific and economic progress of Western countries The rise and influence of magic and irrationality in the media in social networks and at universities is a disturbing phenomenon many Western students no longer want to pursue STEM Science Technologies Engineering and Math careers This lucid and well written book addresses one of the key issues of public debate the deteriorating state of science in Western countries and their governments and its rise in Asian countries The author compares two distinct models the Spanish or Latin model which closed the door on science with the Counter Reformation and that employed by a second group of countries where science was encouraged El as suggests that a similar development could now be taking place between Western countries where the press television and social science academics are becoming increasingly critical towards science and Asia where most prime ministers and other politicians are scientists or engineers This book is intended for STEM educators both at secondary schools and universities scientists and academics interested in scientific culture in the era of fake news

A Good School for Every Child Cyril Taylor,2009-02-10 This book offers an insider s look at some of the key challenges in education and is an invaluable guide for parents and teachers interested in how our schools work today

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Pacific 'A' Level Physics Volume 1 , **Crash Course Cambridge AS Level Physics 9702** Azhar Ul Haque Sario,2023-05-16 This

reference book titled *Crash Course Cambridge AS Level Physics 9702* is a useful supplement for students preparing for the Cambridge AS Level Physics exam. The book is not intended to replace official textbooks or study materials but rather to provide concise and accessible summaries of key concepts in a well organized format. The author has developed this book using their own interpretation and understanding of the syllabus and past exam questions and has not copied content or materials from other sources. The headings and subheadings in the book are based on the official Cambridge AS Level Physics syllabus however no other material has been cited from official work. The table of contents includes helpful information on problem solving, measurement uncertainty, assessment, vector significance, physical motion fundamentals, momentum and energy, principles, turning effects, work, efficiency, power and much more. The book offers extensive information on wave mechanics, electromagnetic spectrum, nuclear physics and particles making it an excellent study guide and reference tool. Please note that this reference book is not for resale and is intended for personal use only. *AS and A Level Physics*, 2006. [A Level Physics a for OCR Year 2 Student Book](#) Graham Bone, Nigel Saunders, 2015-04-01. Written by curriculum and specification experts this student book supports and extends students through the new course whilst delivering the breadth, depth and skills needed to succeed in the new AS and beyond.

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