

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) <sup>2</sup> $\times$ 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 <sup>2</sup> - (initial velocity) <sup>2</sup> = 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

**Stephen Pople**



## 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 *Cambridge International AS & A Level Physics Student's Book 3rd edition* Mike Crundell, Geoff Goodwin, 2020-08-31 This title is endorsed by Cambridge Assessment International Education to support the full syllabus for examination from 2022 Confidently navigate the updated Cambridge International AS A Level Physics 9702 syllabus with a structured approach ensuring that the link between theory and practice is consolidated scientific skills are applied and analytical skills developed Enable students to monitor and build progress with short self assessment questions throughout the student text with answers at the back of the book so students can check their understanding as they work their way through the chapters Build scientific communication skills and vocabulary in written responses with a variety of exam style questions Encourage understanding of historical context and scientific applications with extension boxes in the student text Have confidence that lessons cover the syllabus completely with a free Scheme of Work available online Provide additional practice with the accompanying write in Practical Skills Workbooks which once completed can also be used to recap learning for revision *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's laws You will see how forces shape our world You will dive deep into the physics of matter You will understand density and pressure You will calculate the hidden forces of upthrust You will journey through work energy and power You will discover how energy is conserved and transformed You will study the deformation of solids You will learn about stress strain and the Young Modulus You will investigate the behavior of waves You will visualize superposition and interference You will understand the Doppler effect You will decode the mysteries of electricity You will analyze current resistance and DC circuits You will finish with the fundamental architecture of matter You will meet quarks leptons and the Standard Model You will explore the nucleus and radiation Every topic is here Every concept is broken down You will find clear definitions You will find step by step derivations You will find practical examples

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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 assessment 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, information and advice in revision planning. Answers to the questions in the Student's Book can be found on the Teacher's CD Rom.

**Collins Cambridge International AS and a Level - Cambridge International AS and a Level Physics Student's Book** Collins UK, Michael Smyth, Lynn Pharaoh, Richard Grimmer, Chris Bishop, Carol Davenport, 2020-03-18. The Collins Cambridge International AS First examination 2022. Develop and strengthen practical skills throughout with assignments and experimental skills features and regular opportunities to handle, apply and evaluate data. Deepen understanding by making connections between topics. The prior understanding reviews and end of chapter mind maps provide starting points to build upon. Build self awareness and take control of learning using the questions and opportunities for reflection throughout the book. Challenge and strengthen learning with stretching extension questions. Prepare for examinations with exam style questions. Full teacher support also provided including syllabus mapping notes on common misconceptions, a wealth of activities and regular assessments including prior knowledge reviews, mid chapter formative and end of chapter exam style summative tests. Collins is working with Cambridge Assessment International Education towards endorsement of this title.

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**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

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*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 compriss 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 parts cover all of the major physical theories investigated by philosophers of physics today and the last five explore key themes that unite the study of these theories I Newtonian Mechanics II Special Relativity III General Relativity IV Non Relativistic Quantum Theory V Quantum Field Theory VI Quantum Gravity VII Statistical Mechanics and Thermodynamics VIII Explanation IX Intertheoretic Relations X Symmetries XI Metaphysics XII Cosmology The difficulty level of the chapters has been carefully pitched so as to offer both accessible summaries for those new to philosophy of

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**Science on the Ropes** Carlos Elías,2019-05-15 In this controversial essay Carlos Elías 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 Elías 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

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