

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

**Alison Dixon**



## **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

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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 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 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 physics and standard reference points for active researchers on the front lines An introductory chapter by the editors maps out the field and each part also begins with a short summary that places the individual chapters in context The volume will be indispensable to any serious student or scholar of philosophy of physics

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**The Navy List** Great Britain. Ministry of Defence,1971

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## **Table of Contents As Level Physics A**

1. Understanding the eBook As Level Physics A
  - The Rise of Digital Reading As Level Physics A
  - Advantages of eBooks Over Traditional Books
2. Identifying As Level Physics A
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an As Level Physics A
  - User-Friendly Interface
4. Exploring eBook Recommendations from As Level Physics A
  - Personalized Recommendations
  - As Level Physics A User Reviews and Ratings
  - As Level Physics A and Bestseller Lists
5. Accessing As Level Physics A Free and Paid eBooks
  - As Level Physics A Public Domain eBooks
  - As Level Physics A eBook Subscription Services
  - As Level Physics A Budget-Friendly Options
6. Navigating As Level Physics A eBook Formats

- ePub, PDF, MOBI, and More
  - As Level Physics A Compatibility with Devices
  - As Level Physics A Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of As Level Physics A
    - Highlighting and Note-Taking As Level Physics A
    - Interactive Elements As Level Physics A
  8. Staying Engaged with As Level Physics A
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers As Level Physics A
  9. Balancing eBooks and Physical Books As Level Physics A
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection As Level Physics A
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine As Level Physics A
    - Setting Reading Goals As Level Physics A
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of As Level Physics A
    - Fact-Checking eBook Content of As Level Physics A
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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