

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)	$W = Fd$
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

Cyril Taylor



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

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