

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

Unit 1: Energy

Equations to Learn	
kinetic energy = $\frac{1}{2} \times \text{mass} \times \text{speed}^2$	$E_k = \frac{1}{2} m v^2$
GPE = mass \times gravitational field strength	$E_p = mgh$
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 given in the exam	
elastic potential energy = $0.5 \times \text{spring constant} \times (\text{extension})^2$	$E_e = \frac{1}{2} k e^2$
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	$P = I^2 R$
energy transferred = power \times time	$E = Pt$
energy transferred = charge flow \times potential difference	$E = QV$

* Higher tier only

Unit 3: Particle Model of Matter

Equations to Learn	
density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$
Equations given 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 4: Waves

Equations to Learn	
wave speed = frequency \times wavelength	$v = f\lambda$
Equations given 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 given in the exam	
* Force = magnetic flux density \times current \times length of conductor in magnetic field	$F = BIl$
* $\frac{\text{potential difference across primary coil}}{\text{potential difference across secondary coil}} = \frac{\text{number of turns in primary coil}}{\text{number of turns in secondary coil}}$	$\frac{V_p}{V_s} = \frac{N_p}{N_s}$

* $\frac{\text{p.d. across primary} \times \text{current in primary}}{\text{p.d. across secondary} \times \text{current in secondary}} = 1$

$$V_p I_p = V_s I_s$$

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)	$W = Fx$
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 given in the exam	
* Pressure = height of column of liquid \times density of liquid \times gravitational field strength	$p = h\rho g$
* $\frac{(\text{final velocity})^2 - (\text{initial velocity})^2}{2 \times \text{acceleration}} = \text{distance}$	$v^2 - u^2 = 2as$
* Force = $\frac{\text{change in momentum}}{\text{time taken}}$	$F = \frac{m\Delta v}{t}$

Unit 4: Atomic Structure & Unit 8: Space

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