

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

Unit 1: Energy

Equations to Learn

$$\text{kinetic energy} = \frac{1}{2} \times \text{mass} \times \text{speed}^2 \quad E_k = \frac{1}{2}mv^2$$

$$\text{GPE} = \text{mass} \times \text{gravitational field strength} \times \text{height} \quad E_p = mgh$$

$$\text{power} = \frac{\text{work done}}{\text{time taken}} = \frac{\text{energy transferred}}{\text{time taken}} \quad P = \frac{W}{t} = \frac{E}{t}$$

$$\text{efficiency} = \frac{\text{useful energy output}}{\text{total energy input}}$$

$$\text{efficiency} = \frac{\text{useful power output}}{\text{total power input}}$$

Equations shown in the exam

$$\text{elastic potential energy} = 0.5 \times \text{spring constant} \times (\text{extension})^2 \quad E_e = \frac{1}{2}kx^2$$

$$\text{change in thermal energy} = \text{mass} \times \text{specific heat capacity} \times \text{temperature change} \quad \Delta E = mc\Delta\theta$$

Unit 2: Electricity

Equations to Learn

$$\text{charge flow} = \text{current} \times \text{time} \quad Q = It$$

$$\text{potential difference} = \text{current} \times \text{resistance} \quad V = IR$$

$$\text{total resistance} = \text{resistance of component 1} + \text{resistance of component 2} \quad R_{\text{total}} = R_1 + R_2$$

$$\text{power} = \text{current} \times \text{potential difference} \quad P = IV$$

$$\text{power} = (\text{current})^2 \times \text{resistance} \quad P = I^2R$$

$$\text{energy transferred} = \text{power} \times \text{time} \quad E = Pt$$

$$\text{energy transferred} = \text{charge flow} \times \text{potential difference} \quad E = QV$$

* Higher tier only

* Separate Physics only

Unit 3: Particle Model of Matter

Equations to Learn

$$\text{density} = \frac{\text{mass}}{\text{volume}} \quad \rho = \frac{m}{V}$$

Equations shown in the exam

$$\text{change in thermal energy} = \text{mass} \times \text{specific heat capacity} \times \text{temperature change} \quad \Delta E = mc\Delta\theta$$

$$\text{thermal energy for a change in state} = \text{mass} \times \text{specific latent heat} \quad E = mL$$

$$\text{* for a gas, pressure} \times \text{volume} = \text{constant} \quad pV = \text{constant}$$

Unit 6: Waves

Equations to Learn

$$\text{wave speed} = \text{frequency} \times \text{wavelength} \quad v = f\lambda$$

Equations shown in the exam

$$\text{time period} = \frac{1}{\text{frequency}} \quad T = \frac{1}{f}$$

$$\text{* magnification} = \frac{\text{image height}}{\text{object height}} \quad M = \frac{h_{\text{image}}}{h_{\text{object}}}$$

Unit 7: Magnetism and Electromagnetism

Equations shown in the exam

$$\text{* Force} = \text{magnetic flux density} \times \text{current} \times \text{length of conductor in magnetic field} \quad F = BIl$$

$$\frac{\text{potential difference across primary coil}}{\text{potential difference across secondary coil}} = \frac{\text{number of turns in primary coil}}{\text{number of turns in secondary coil}} \quad \frac{V_p}{V_s} = \frac{N_p}{N_s}$$

$$\text{* * p.d. across primary} \times \text{current in primary} = \text{p.d. across secondary} \times \text{current in secondary} \quad V_p I_p = V_s I_s$$

Unit 5: Forces

Equations to Learn

$$\text{weight} = \text{mass} \times \text{gravitational field strength} \quad W = mg$$

$$\text{work done} = \text{force} \times \text{distance} \quad W = Fs$$

(moved along the line of action of the force)

$$\text{force} = \text{spring constant} \times \text{extension} \quad F = kx$$

$$\text{moment of a force} = \text{force} \times \text{distance} \quad M = Fd$$

(perpendicular to the direction of the force)

$$\text{pressure} = \frac{\text{force normal to a surface}}{\text{area of that surface}} \quad P = \frac{F}{A}$$

$$\text{distance travelled} = \text{speed} \times \text{time} \quad s = vt$$

$$\text{acceleration} = \frac{\text{change in velocity}}{\text{time taken}} \quad a = \frac{\Delta v}{t}$$

$$= \frac{\text{final velocity} - \text{initial velocity}}{\text{time taken}} \quad = \frac{v - u}{t}$$

$$\text{resultant force} = \text{mass} \times \text{acceleration} \quad F = ma$$

$$\text{* momentum} = \text{mass} \times \text{velocity} \quad p = mv$$

Equations shown in the exam

$$\text{* * Pressure} = \text{height of column} \times \text{density of liquid} \times \text{gravitational field strength} \quad p = h\rho g$$

$$\text{* final velocity}^2 - \text{initial velocity}^2 = 2 \times \text{acceleration} \times \text{distance} \quad v^2 - u^2 = 2as$$

$$\text{* * Force} = \frac{\text{change in momentum}}{\text{time taken}} \quad F = \frac{m\Delta v}{t}$$

Unit 4: Atomic Structure & Unit 8: Space

There are no equations in these sections of the course

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