

AQA GCSE Physics Equations

Weight (W)	$W = mg$	weight = mass x gravitational field strength
Work Done (W)	$W = Fs$	work done= force x distance
Force (F) on a spring	$F = ke$	force = spring constant x extension
Moment (M)	$M = fd$	moment = force x distance from pivot
Pressure (p)	$P = \frac{F}{A}$	pressure = force ÷ area
Distance (s)	$s = vt$	distance = speed x time
Acceleration (a)	$a = \frac{\Delta v}{t}$	acceleration = change in velocity ÷ time
Resultant Force (F)	$F = ma$	force = mass x acceleration
Momentum (p)	$p = mv$	momentum = mass x velocity
Kinetic Energy (E _k)	$E_k = \frac{1}{2} mv^2$	kinetic energy = 0.5 x mass x (speed) ²
Gravitational Potential Energy (E _p)	$E_p = mgh$	gravitational potential energy = mass x gravity x height
Power (P)	$P = \frac{E}{t}$	power = energy transferred ÷ time
Power (P)	$P = \frac{W}{t}$	power = work done ÷ time
Energy Transferred (E)	$E = Pt$	Energy Transferred = power x time
Efficiency	Efficiency = $\frac{\text{Useful energy output}}{\text{Total energy input}}$	
Efficiency	Efficiency = $\frac{\text{Useful power output}}{\text{Total power input}}$	
Wave Speed (v)	$v = f\lambda$	wave speed = frequency x wavelength
Charge (Q)	$Q = It$	charge flow = current x time
Potential Difference (V)	$V = IR$	potential difference = current x resistance
Power (P) (electrical)	$P = IV$	power = current x potential difference
Power (P) (electrical)	$P = I^2R$	power = (current) ² x resistance
Energy Transferred (E) (electrical)	$E = QV$	energy = charge x potential difference
Density (ρ)	$\rho = \frac{m}{v}$	density = mass ÷ volume

Gcse Physics Equation Sheet Ph1hp

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