

# 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 given 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	$P = I^2 R$
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 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	$F = BIL$
potential difference across primary coil * potential difference across secondary coil number of turns in primary coil 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 = $\frac{\text{change in velocity}}{\text{time taken}}$  $= \frac{\text{final velocity} - \text{initial velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$  $= \frac{v - u}{t}$
resultant force = mass $\times$ acceleration	$F = ma$
* momentum = mass $\times$ velocity	$p = mv$
Equations given in the exam	
* * Pressure = height of column $\times$ 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 6: Atomic Structure & Unit 8: Space

There are no equations in these sections of the course

# Physics Equations And Formulae Guide

**Adedeji B. Badiru, Olufemi A.  
Omitaomu**



## **Physics Equations And Formulae Guide:**

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National Bureau of Standards,1952 *Fundamentals of Physics, Study Guide* Stanley A. Williams,Kenneth

Brownstein,Thomas Marcella,1988-10-18 This third edition of the famous introductory physics text has been thoroughly revised and updated The new edition contains two entirely new chapters Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest Each essay is self contained and is written by an expert in the topic The body of the text contains more help in problem solving and the chapter sections are shorter making the material more accessible There are more photos and diagrams than before including attention getting chapter head photos and captions The number of worked examples has been increased as has the number of questions exercises and problems In addition a thread of ideas from relativistic and quantum physics is weaved through the earlier chapters preparing the way for the later chapters *Handbook of Radioactivity Analysis* Michael F.

L'Annunziata,2012-08-16 Authoritative reference providing the principles practical techniques and procedures for the accurate measurement of radioactivity **U.S. Environmental Protection Agency Library System Book Catalog**

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