

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

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SJ Ball



As Physics Edexcel:

Edexcel AS Physics Ann Fullick, Edexcel (Organization), Patrick Fullick, Sue Howarth, Keith Gibbs, 2008-01-01 Edexcel's own resources for the GCE 2008 specifications

As Physics Edexcel Revision Guide CGP Books, 2008-07 *Edexcel AS Physics* Mike Benn, 2012

Edexcel AS Physics Revision Guide Tim Tuggey, Richard Laird, Pauline C. Anning, Keith Bridgeman, 2009 Written by experienced examiners this revision guide for AS and A2 provides tailored support for the 2008 specification

Edexcel AS Physics Mike Benn (Physics teacher), 2009

Implementation and assessment guide for teachers and technicians Ann Fullick, Patrick Fullick, Sue Howarth, Miles Hudson, 2008 Edexcel's own resources for the GCE 2008 specifications

Edexcel AS Physics Student Unit Guide: Unit 1 Physics on the Go Mike Benn, 2009-05-29 Student Unit Guides are perfect for revision Each guide is written by an examiner and explains the unit requirements summarises the relevant unit content and includes a series of specimen questions and answers There are three sections to each guide Introduction includes advice on how to use the guide an explanation of the skills being tested by the assessment objectives an outline of the unit or module and depending on the unit suggestions for how to revise effectively and prepare for the examination questions Content Guidance provides an examiner's overview of the module's key terms and concepts and identifies opportunities to exhibit the skills required by the unit It is designed to help students to structure their revision and make them aware of the concepts they need to understand the exam and how they might analyse and evaluate topics Question and Answers sample questions and with graded answers which have been carefully written to reflect the style of the unit All responses are accompanied by commentaries which highlight their respective strengths and weaknesses giving students an insight into the mind of the examiner

Edexcel AS Physics Revision Guide, 2009

Edexcel AS/A Level Physics Miles Hudson, 2015 Created for the new 2015 Edexcel AS and A level specifications our new Student Books cover the topics comprehensively developing scientific thinking in your students providing them with a deep understanding of the subject and creating confident independent scientists

Edexcel AS Physics Student Unit Guide Mike Benn, 2012-08-01 Perfect for revision these guides explain the unit requirements summarise the content and include specimen questions with graded answers Each full colour New Edition Student Unit Guide provides ideal preparation for your unit exam Feel confident you understand the unit each guide comprehensively covers the unit content and includes topic summaries knowledge check questions and a reference index Get to grips with the exam requirements the specific skills on which you will be tested are explored and explained Analyse exam style questions graded student responses will help you focus on areas where you can improve your exam technique and performance

Pearson Edexcel International A Level Miles Hudson, 2019 Developed for the new International A Level specification these new resources are specifically designed for international students with a strong focus on progression recognition and transferable skills allowing learning in a local context to a global standard Recognised by universities worldwide and fully comparable to UK reformed GCE A levels Supports a modular

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unit with topic summaries knowledge check questions and a quick reference index examiner s advice throughout so you will know what to expect in the exam and will be able to demonstrate the skills required exam style questions with graded student responses so you can see clearly what is required to get a better grade **Physics at Work** Graham George, Mike Benn, 2009-08-01 Each of the books in the Student Unit Guide series are written by an examiner and explain the unit requirements summarise the relevant unit content and include a series of specimen questions and answers Student book Ann Fullick, Patrick Fullick, Mike Hudson, Sue Howarth, 2008-01-01 Edexcel s own resources for the GCE 2008 specifications A single user licence of the ActiveBook is provided in the back of the student s book along with key vocabulary linked to an audio glossary plus the facility to zoom into specific sections of the text and images **Edexcel AS Physics** Mike Benn (Physics teacher), 2009

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