

Physics Equations Sheet GCSE Physics (8463) FOR USE IN JUNE 2023 ONLY

HT = Higher Tier only equations

kinetic energy = $0.5 \times \text{mass} \times (\text{speed})^2$	$E_k = \frac{1}{2} m v^2$
elastic potential energy = $0.5 \times \text{spring constant} \times (\text{extension})^2$	$E_e = \frac{1}{2} k e^2$
gravitational potential energy = $\text{mass} \times \text{gravitational field strength} \times \text{height}$	$E_p = m g h$
change in thermal energy = $\text{mass} \times \text{specific heat capacity} \times \text{temperature change}$	$\Delta E = m c \Delta \theta$
power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
charge flow = $\text{current} \times \text{time}$	$Q = I t$
potential difference = $\text{current} \times \text{resistance}$	$V = I R$
power = $\text{potential difference} \times \text{current}$	$P = V I$
power = $(\text{current})^2 \times \text{resistance}$	$P = I^2 R$
energy transferred = $\text{power} \times \text{time}$	$E = P t$
energy transferred = $\text{charge flow} \times \text{potential difference}$	$E = Q V$
density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$

Aqa Physics 23 May 2013

Sandra Mitchell, Charles Golabek



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AQA GCSE Physics 9-1 Student Book (GCSE Science 9-1) Sandra Mitchell, Charles Golabek, 2021-09-20 Exam Board AQA Level Subject GCSE Physics First teaching September 2016 First exams June 2018 AQA approved **AQA GCSE Physics for Combined Science: Trilogy 9-1 Student Book (GCSE Science 9-1)** Sandra Mitchell, Charles Golabek, 2021-09-20 Exam Board AQA Level Subject GCSE Combined Science Trilogy First teaching September 2016 First exams June 2018 AQA approved Initial Boundary Value Problems in Mathematical Physics Rolf Leis, 2013-01-01 Based on the author's lectures at the University of Bonn in 1983/84 this book introduces classical scattering theory and the time dependent theory of linear equations in mathematical physics Topics include proof of the existence of wave operators some special equations of mathematical physics exterior boundary value problems radiation conditions and limiting absorption principles 1986 edition

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