

Physics Equations Sheet

GCSE Physics (8463)

FOR USE IN JUNE 2022 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 = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$

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SJ Ball



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Sheet Metal Shop and Pattern Cutter's Magazine ,1924 **High Energy Physics Index** ,1993 *Resources in Education* ,1997 **Science Abstracts. Physics and Electrical Engineering** ,1907 **Bulletin of the Education Section** ,1949 **Nuclear Science Abstracts** ,1975-11 **Scientific and Technical Aerospace Reports** ,1994-05 **Energy Research Abstracts** ,1989 **English Mechanic and Mirror of Science and Art** ,1913 *Safety Education* ,1948 A magazine of the good adventure **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration,1977 *ERDA Energy Research Abstracts* United States. Energy Research and Development Administration. Technical Information Center,1977 *ERDA Energy Research Abstracts* ,1977 *English Mechanic and World of Science* ,1882 **Bulletin of Safety Education** ,1948 **Government-wide Index to Federal Research & Development Reports** ,1965-07 **Conference on Lasers and Electrooptics, 10-12 June 1981, IEEE/OSA, Washington, D.C.** ,1981 Dimensions ,1963 *Applied Mechanics Reviews* ,1970 *Physics Briefs* ,1992

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