

Physics Equations Sheet

GCSE Combined Science: Trilogy (8464)
GCSE Combined Science: Synergy (8465)

7	potential difference across primary coil × current in primary coil = potential difference across secondary coil × current in secondary coil	$V_{\rm p} I_{\rm p} = V_{\rm s} I_{\rm s}$
6	thermal energy for a change of state = mass × specific latent heat	E = m L
5	force on a conductor (at right angles to a magnetic field) carrying a current = magnetic flux density × current × length	F = B I !
4	$period = \frac{1}{frequency}$	$T = \frac{1}{f}$
3	change in thermal energy = mass \times specific heat capacity \times temperature change	$\Delta E = m c \Delta \theta$
2	elastic potential energy = $0.5 \times \text{spring constant} \times (\text{extension})^2$	$E_{\rm e} = \frac{1}{2} k {\rm e}^2$
1	(final velocity) ² – (initial velocity) ² = $2 \times acceleration \times distance$	$v^2 - u^2 = 2 \ a \ s$

Higher Tier only equations are in **bold**.