



# 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 = $\frac{\text{mass}}{\text{volume}}$                                                                  | $\rho = \frac{m}{V}$           |

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