

## Equations in Physics

## OCR Gateway GCSE Physics (9-1)

You need to **remember** these equations and the units they are measured in. You need to be able to re-arrange them too.

|                                                                                                             |                                                                  |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| density (kg/m <sup>3</sup> ) = mass (kg)/volume (m <sup>3</sup> )                                           | $\rho = \frac{m}{V}$                                             |
| distance travelled (m) = speed (m/s) x time (s)                                                             | $s = vt$                                                         |
| acceleration (m/s <sup>2</sup> ) = change in velocity (m/s)/time (s)                                        | $a = \frac{\Delta v}{t}$                                         |
| kinetic energy (J) = 0.5 x mass (kg) x [speed (m/s)] <sup>2</sup>                                           | $E_k = \frac{1}{2}mv^2$                                          |
| force (N) = mass (kg) x acceleration (m/s <sup>2</sup> )                                                    | $F = ma$                                                         |
| <b>momentum (kgm/s) = mass (kg) x velocity (m/s)</b>                                                        | $p = mv$                                                         |
| work done (J) = force (N) x distance (m) (along the line of action of the force)                            | $W = F\Delta s$                                                  |
| power (W) = work done (J)/time(s)                                                                           | $P = \frac{W}{t}$                                                |
| force exerted by a spring (N) = extension (m) x spring constant (N/m)                                       | $F = k\Delta x$                                                  |
| gravity force (N) = mass (kg) x gravitational field strength, g (N/kg)                                      | $W = mg$                                                         |
| (in a gravity field) potential energy (J) = mass (kg) x height (m) x gravitational field strength, g (N/kg) | $E_p = mgh$                                                      |
| pressure (Pa) = force normal to a surface (N)/area of that surface (m <sup>2</sup> )                        | $P = \frac{F}{A}$                                                |
| moment of a force (Nm) = force (N) x distance (m) (normal to direction of the force)                        | $M = Fd$                                                         |
| charge flow (C) = current (A) x time (s)                                                                    | $Q = It$                                                         |
| potential difference (V) = current (A) x resistance (Ω)                                                     | $V = IR$                                                         |
| energy transferred (J) = charge (C) x potential difference (V)                                              | $E = QV$                                                         |
| power (W) = potential difference (V) x current (A) = (current (A)) <sup>2</sup> x resistance (Ω)            | $P = IV = I^2R$                                                  |
| energy transferred (J, kWh) = power (W, kW) x time (s, h)                                                   | $\Delta E = Pt$                                                  |
| wave speed (m/s) = frequency (Hz) x wavelength (m)                                                          | $v = f\lambda$                                                   |
| efficiency = useful output energy transfer (J)/input energy transfer (J)                                    | $E_f = \frac{\Delta E_{\text{useful}}}{\Delta E_{\text{input}}}$ |

You'll need to be familiar with these and able to select the right equation. You'll need to remember the units and be able to rearrange them.

|                                                                                                                                                                 |                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| change in thermal energy (J) = mass (kg) x specific heat capacity (J/kg°C) x change in temperature (°C)                                                         | $\Delta E = mc\Delta T$                 |
| thermal energy for a change in state (J) = mass (kg) x specific latent heat (J/kg)                                                                              | $E = mL$                                |
| pressure (Pa) x volume (m <sup>3</sup> ) = constant (for a given mass of gas and at a constant temperature)                                                     | $PV = k$                                |
| pressure due to a column of liquid (Pa) = height of column (m) x density of liquid (kg/m <sup>3</sup> ) x g (N/kg)                                              | $P = h\rho g$                           |
| [final velocity (m/s)] <sup>2</sup> - [initial velocity (m/s)] <sup>2</sup> = 2 x acceleration (m/s <sup>2</sup> ) x distance (m)                               | $v^2 = u^2 + 2as$                       |
| energy transferred in stretching (J) = 0.5 x spring constant (N/m) x (extension (m)) <sup>2</sup>                                                               | $E_{\text{ext}} = \frac{1}{2}k\Delta x$ |
| force on a conductor (at right angles to a magnetic field) carrying a current (N) = magnetic field strength (T) x current (A) x length (m)                      | $F = BIl$                               |
| potential difference across primary coil (V)/potential difference across secondary coil (V) = number of turns in primary coil/number of turns in secondary coil | $\frac{V_p}{V_s} = \frac{N_p}{N_s}$     |
| potential difference across primary coil (V) x current in primary coil (A) = potential difference across secondary coil (V) x current in secondary coil (A)     | $V_p I_p = V_s I_s$                     |

\***Bold** type is only applicable to the higher tier.

Check out GorillaPhysics on YouTube for playlists on these units and topics, including use of these Equations!

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