

## 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)	$E_f = \frac{\Delta E_u}{\Delta E_i}$

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>	$E_{st} = \frac{1}{2}k\Delta x$
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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**Richard Parsons**



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## **Table of Contents Gcse Physics Past Papers Ocr Gateway**

1. Understanding the eBook Gcse Physics Past Papers Ocr Gateway
  - The Rise of Digital Reading Gcse Physics Past Papers Ocr Gateway
  - Advantages of eBooks Over Traditional Books
2. Identifying Gcse Physics Past Papers Ocr Gateway
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Gcse Physics Past Papers Ocr Gateway
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gcse Physics Past Papers Ocr Gateway
  - Personalized Recommendations
  - Gcse Physics Past Papers Ocr Gateway User Reviews and Ratings
  - Gcse Physics Past Papers Ocr Gateway and Bestseller Lists

- 
5. Accessing Gcse Physics Past Papers Ocr Gateway Free and Paid eBooks
    - Gcse Physics Past Papers Ocr Gateway Public Domain eBooks
    - Gcse Physics Past Papers Ocr Gateway eBook Subscription Services
    - Gcse Physics Past Papers Ocr Gateway Budget-Friendly Options
  6. Navigating Gcse Physics Past Papers Ocr Gateway eBook Formats
    - ePub, PDF, MOBI, and More
    - Gcse Physics Past Papers Ocr Gateway Compatibility with Devices
    - Gcse Physics Past Papers Ocr Gateway Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Gcse Physics Past Papers Ocr Gateway
    - Highlighting and Note-Taking Gcse Physics Past Papers Ocr Gateway
    - Interactive Elements Gcse Physics Past Papers Ocr Gateway
  8. Staying Engaged with Gcse Physics Past Papers Ocr Gateway
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Gcse Physics Past Papers Ocr Gateway
  9. Balancing eBooks and Physical Books Gcse Physics Past Papers Ocr Gateway
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Gcse Physics Past Papers Ocr Gateway
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Gcse Physics Past Papers Ocr Gateway
    - Setting Reading Goals Gcse Physics Past Papers Ocr Gateway
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Gcse Physics Past Papers Ocr Gateway
    - Fact-Checking eBook Content of Gcse Physics Past Papers Ocr Gateway
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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