

AQA GCSE Physics Equations

Weight (W)	$W = mg$	weight = mass x gravitational field strength
Work Done (W)	$W = Fs$	work done= force x distance
Force (F) on a spring	$F = ke$	force = spring constant x extension
Moment (M)	$M = fd$	moment = force x distance from pivot
Pressure (p)	$P = \frac{F}{A}$	pressure = force ÷ area
Distance (s)	$s = vt$	distance = speed x time
Acceleration (a)	$a = \frac{\Delta v}{t}$	acceleration = change in velocity ÷ time
Resultant Force (F)	$F = ma$	force = mass x acceleration
Momentum (p)	$p = mv$	momentum = mass x velocity
Kinetic Energy (E _k)	$E_k = \frac{1}{2} mv^2$	kinetic energy = 0.5 x mass x (speed) ²
Gravitational Potential Energy (E _p)	$E_p = mgh$	gravitational potential energy = mass x gravity x height
Power (P)	$P = \frac{E}{t}$	power = energy transferred ÷ time
Power (P)	$P = \frac{W}{t}$	power = work done ÷ time
Energy Transferred (E)	$E = Pt$	Energy Transferred = power x time
Efficiency	Efficiency = $\frac{\text{Useful energy output}}{\text{Total energy input}}$	
Efficiency	Efficiency = $\frac{\text{Useful power output}}{\text{Total power input}}$	
Wave Speed (v)	$v = f\lambda$	wave speed = frequency x wavelength
Charge (Q)	$Q = It$	charge flow = current x time
Potential Difference (V)	$V = IR$	potential difference = current x resistance
Power (P) (electrical)	$P = IV$	power = current x potential difference
Power (P) (electrical)	$P = I^2R$	power = (current) ² x resistance
Energy Transferred (E) (electrical)	$E = QV$	energy = charge x potential difference
Density (ρ)	$\rho = \frac{m}{v}$	density = mass ÷ volume

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A Loxley



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Table of Contents Gcse Physics Equation Sheet Ph1hp

1. Understanding the eBook Gcse Physics Equation Sheet Ph1hp
 - The Rise of Digital Reading Gcse Physics Equation Sheet Ph1hp
 - Advantages of eBooks Over Traditional Books
2. Identifying Gcse Physics Equation Sheet Ph1hp
 - 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 Equation Sheet Ph1hp
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gcse Physics Equation Sheet Ph1hp
 - Personalized Recommendations
 - Gcse Physics Equation Sheet Ph1hp User Reviews and Ratings
 - Gcse Physics Equation Sheet Ph1hp and Bestseller Lists
5. Accessing Gcse Physics Equation Sheet Ph1hp Free and Paid eBooks

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 - Gcse Physics Equation Sheet Ph1hp eBook Subscription Services
 - Gcse Physics Equation Sheet Ph1hp Budget-Friendly Options
6. Navigating Gcse Physics Equation Sheet Ph1hp eBook Formats
- ePub, PDF, MOBI, and More
 - Gcse Physics Equation Sheet Ph1hp Compatibility with Devices
 - Gcse Physics Equation Sheet Ph1hp Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Gcse Physics Equation Sheet Ph1hp
 - Highlighting and Note-Taking Gcse Physics Equation Sheet Ph1hp
 - Interactive Elements Gcse Physics Equation Sheet Ph1hp
8. Staying Engaged with Gcse Physics Equation Sheet Ph1hp
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gcse Physics Equation Sheet Ph1hp
9. Balancing eBooks and Physical Books Gcse Physics Equation Sheet Ph1hp
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gcse Physics Equation Sheet Ph1hp
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gcse Physics Equation Sheet Ph1hp
- Setting Reading Goals Gcse Physics Equation Sheet Ph1hp
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gcse Physics Equation Sheet Ph1hp
- Fact-Checking eBook Content of Gcse Physics Equation Sheet Ph1hp
 - 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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