



Equations for AQA Physics

Triple Award

Recall and apply equations

You will have to learn each of the following equations off by heart for each exam paper, and know when and how to use them. Equation 9 is required for the Higher Tier papers only (as indicated by the symbol **HT**).



EQUATION	WORD EQUATION	SYMBOL EQUATION	
1	weight = mass $\times$ gravitational field strength (g)	$W = m g$	
2	work done = force $\times$ distance (along the line of action of the force)	$W = F d$	
3	force applied to spring = spring constant $\times$ extension	$F = k e$	
4	moment of a force = force $\times$ distance (normal to direction of force)	$M = F d$	
5	pressure = $\frac{\text{force normal to surface}}{\text{area of surface}}$	$p = \frac{F}{A}$	
6	Distance travelled = speed $\times$ time	$s = v t$	
7	acceleration = $\frac{\text{change in velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$	
8	Resultant force = mass $\times$ acceleration	$F = m a$	
9 HT	Momentum = mass $\times$ velocity	$p = m v$	
10	Kinetic energy = $0.5 \times \text{mass} \times (\text{speed})^2$	$E_k = \frac{1}{2} m v^2$	
11	Gravitational potential energy = mass $\times$ gravitational field strength (g) $\times$ height	$E_p = m g h$	
12	power = $\frac{\text{energy transferred}}{\text{time taken}}$	$P = \frac{E}{t}$	

Aqa Physics Equation Sheet 2012 Exam

Jim Breithaupt

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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