

Physics Equations Sheet GCSE Additional Science / Physics (AS1, AS2 and PH2)

	F	resultant force
	m	mass
$a = \frac{F}{m}$ or $F = m \times a$		acceleration
	а	acceletation
	а	acceleration
$a = \frac{v - u}{t}$	٧	final velocity
	u	initial velocity
	t	time taken
$W = m \times g$	W	weight
	m	mass
	g	gravitational field strength
$F = k \times e$	F	force
$r = \kappa \times e$	k	spring constant
	е	extension
$W = F \times d$	W	work done
	F	force applied
	d	distance moved in the direction of the force
$P = \frac{E}{t}$	Р	power
	Ε	energy transferred
	t	time taken
$E_p = m \times g \times h$	E_p	change in gravitational potential energy
	m	mass
	g	gravitational field strength
	h	change in height
$E_k = \frac{1}{2} \times m \times v^2$	Ek	kinetic energy
	m	mass
	٧	speed
$p = m \times v$	р	momentum
	m	mass
	V	velocity

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$I = \frac{Q}{t}$	ı	current
	Q	charge
$V = \frac{w}{o}$	t	time
	V	potential difference
	W	work done
	Q	charge
$V = I \times R$	٧	potential difference
$V = I \times R$	I	current
	R	resistance
F	Р	power
$P = \frac{E}{t}$	Е	energy
$P = I \times V$	t	time
	Р	power
$P = I \times V$	I	current
	V	potential difference
F 11 2 0	Е	energy
$E = V \times Q$	٧	potential difference (Higher Tier only)
	Q	charge