Forces formulae	
Formula	**Formula in words**
W = m g	Weight = mass x gravitational field strength
W = F s	Work done = force x distance
F = k e	Force applied to spring = spring constant x extension
M = F d	Moment of a force = force x distance
P = F / A	Pressure = force / area
S = v t	Distance = speed x time
a = Δv / t	Acceleration = change in velocity / time
F = m a	Resultant force = mass x acceleration
p = m v	Momentum = mass x velocity (higher tier only)

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Energy/electricity formulae part 1	
$E_k = ½ mv^2$	Kinetic energy = ½ x mass x $(speed)^2$
$E_p = m g h$	Gravitational potential = mass x gravity x height
P= E / t	Power = energy transferred / time
P = W / t	Power = work done / time
	Efficiency = useful output / useful input
	Efficiency = useful output / total output
Extra formulae	
v = f ʎ	Wave speed = frequency x wavelength
Ƥ = m / v	Density = mass / volume

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Energy/electricity formulae part 2	
$Q = I\,t$	Charge flow = current x time
$V = I\,R$	Potential difference = current x resistance
$P = V\,I$	Power = potential difference x current
$P = I^2\,R$	Power = $(\text{current})^2$ x resistance
$E = P\,t$	Energy transferred = power x time
$E = Q\,V$	Energy transferred = charge flow x potential difference

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