

## Physics Equation Sheet – Year 9 Physics only

Equation number	Word equation	Symbol equation
1	weight = mass x gravitational field strength (g)	$W = m g$
2	work done = force x distance	$W = F s$
3	efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
4	moment of a force = force x distance	$M = F d$
5	pressure = force ÷ area	$p = F / A$
6	speed = distance ÷ time	$v = s / t$
7	power = energy transferred ÷ time	$P = E / t$
8	potential difference = current x resistance	$V = I R$
9	density = mass ÷ volume	$\rho = m / V$