

# Physics Equations Sheet

## GCSE Science A/Physics (SCA1, SCA2 and PH1)

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$E = m \times c \times \theta$	$E$ energy transferred $m$ mass $\theta$ temperature change $c$ specific heat capacity
efficiency = $\frac{\text{useful energy out}}{\text{total energy in}}$ ( $\times 100\%$ )	
efficiency = $\frac{\text{useful power out}}{\text{total power in}}$ ( $\times 100\%$ )	
$E = P \times t$	$E$ energy transferred $P$ power $t$ time
$v = f \times \lambda$	$v$ speed $f$ frequency $\lambda$ wavelength