

## Physics Equations Sheet

### GCSE Science A / Physics

### (SCA1, SCA2 and PH1)

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