

## 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<br><i>m</i> mass<br><i>θ</i> temperature change<br><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<br><i>P</i> power<br><i>t</i> time   |
| $v = f \times \lambda$  | <i>v</i> speed<br><i>f</i> frequency<br><i>λ</i> wavelength  |