

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 |
| $\text{efficiency} = \frac{\text{useful energy out}}{\text{total energy in}} (\times 100\%)$ | |
| $\text{efficiency} = \frac{\text{useful power out}}{\text{total power in}} (\times 100\%)$ | |
| $E = P \times t$ | <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 |