## Edexce **GCSE** Equation Sheet Combined / Physics

Equations in **bold are for Higher Tier** only Equation highlighted in blue are for Physics only (not Combined)





wave speed = frequency x wavelength

wave speed = distance / time

energy transferred = charge moved x potential difference

charge = current x time

potential difference = current x resistance

energy transferred = current x potential difference x time

power = energy transferred / time taken

power = current x potential difference

power = current<sup>2</sup> x resistance

density = mass / volume

change in thermal energy = mass x specific heat change in capacity x temperature

thermal energy for a change of state = mass x specific latent heat

pressure<sub>1</sub> x volume<sub>1</sub> = pressure<sub>2</sub> x volume<sub>2</sub>

force on a conductor = magnetic carrying a current flux density x current x length carrying a current

potential difference across primary coil \_ number of turns in primary coil potential difference across secondary coil number of turns in secondary coil potential potential difference across X primary coil difference across X secondary coil =

secondary coil

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