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Equations in physics

(final speed)^2 – (initial speed)^2 = 2 × acceleration × distance

change in internal energy = mass × specific heat capacity × change in temperature

energy to cause a change of state = mass × specific latent heat

energy stored in a stretched spring = ½ × spring constant × (extension)^2

potential difference across primary coil × current in primary coil =
potential difference across secondary coil × current in secondary coil

Higher tier only –

force = magnetic flux density × current × length of conductor

change in momentum = resultant force × time for which it acts

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