

Data Sheet

GCSE (9-1) Combined Science B (Twenty First Century Science) (Physics J260/03 & J260/07)

The information in this sheet is for the use of candidates following
GCSE (9-1) Combined Science B (Physics) (J260/03 & J260/07).

A copy of this sheet will be provided as an insert within the question paper for each component.
Copies of this sheet may be used for teaching.

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Equations in physics

$(\text{final speed})^2 - (\text{initial speed})^2 = 2 \times \text{acceleration} \times \text{distance}$

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

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

energy stored in a stretched spring = $\frac{1}{2}$ x spring constant x (extension)²

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

force on a conductor (at right angles to a magnetic field) carrying a current: = magnetic flux density x current x length

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