

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

Data Sheet (Insert)



June 2018

INSTRUCTIONS

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INFORMATION

- The information in this Data Sheet is for the use of candidates following GCSE (9–1) Combined Science B (Physics) (J260 03/07).
- This document consists of 2 pages.

Equations in physics

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

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 = $\frac{1}{2} \times \text{spring constant} \times (\text{extension})^2$

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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