

GCSE (9–1) Combined Science A (Gateway Science) Physics J250 05/06/11/12

Data Sheet

Year 11 Test

INSTRUCTIONS

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INFORMATION

- The information in this Data Sheet is for the use of candidates following GCSE (9–1) Combined Science A (Physics) (J250 05/06/11/12).
- This document consists of 2 pages.

Equations in physics

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

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

thermal energy for a change in state = mass × specific latent heat

energy transferred in stretching = 0.5 × 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 on a conductor (at right angles to a magnetic field) carrying a current = magnetic flux density × current × length



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