



Oxford Cambridge and RSA

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

Data Sheet (Insert)

June 2019



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

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

change in internal energy = mass \times specific heat capacity \times change in temperature

energy to cause a change of state = mass \times 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 \times current in primary coil =
potential difference across secondary coil \times current in secondary coil

Higher tier only –

force = magnetic flux density \times current \times length of conductor

change in momentum = resultant force \times time for which it acts



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