

Modified Enlarged 18pt

OXFORD CAMBRIDGE AND RSA EXAMINATIONS

June 2019

**GCSE (9–1) Combined Science B
(Twenty First Century Science) Physics**

J260 03/07

Data Sheet (Insert)

READ INSTRUCTIONS OVERLEAF



INSTRUCTIONS

Do not send this Data Sheet for marking; it should be retained in the centre or destroyed.

INFORMATION

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

EQUATIONS IN PHYSICS

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

$\text{change in internal energy} = \text{mass} \times \text{specific heat capacity} \times \text{change in temperature}$

$\text{energy to cause a change of state} = \text{mass} \times \text{specific latent heat}$

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

$\text{potential difference across primary coil} \times \text{current in primary coil} = \text{potential difference across secondary coil} \times \text{current in secondary coil}$

HIGHER TIER ONLY

$\text{force} = \text{magnetic flux density} \times \text{current} \times \text{length of conductor}$

$\text{change in momentum} = \text{resultant force} \times \text{time for which it acts}$



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