

Autumn 2021

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

J260 03/07

Data Sheet



INSTRUCTIONS

• Do not send this Data Sheet for marking. Keep it in the centre or recycle it.

INFORMATION

• This document has 2 pages.

Equations in physics

(final speed)² – (initial speed)² = 2 × acceleration × 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 = $\frac{1}{2}$ × 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 = magnetic flux density × current × length of conductor change in momentum = resultant force × time for which it acts



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