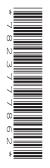# OCR

Oxford Cambridge and RSA

November 2020

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.

OCR is an exempt Charity

Turn over

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 = ½ × 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