

**Paper Reference 1SC0/2PF**  
**Pearson Edexcel Level 1/Level 2 GCSE (9–1)**

**Combined Science**  
**PAPER 6**  
**Foundation Tier**

**Additional Equations Insert**

**DO NOT RETURN THIS INSERT  
WITH THE QUESTION PAPER.**

**(final velocity)<sup>2</sup> – (initial velocity)<sup>2</sup> =  
2 × acceleration × distance**

$$v^2 - u^2 = 2 \times a \times x$$

**energy transferred = current × potential  
difference × time**

$$E = I \times V \times t$$

**potential difference across primary  
coil × current in primary coil = potential  
difference across secondary coil × current  
in secondary coil**

$$V_p \times I_p = V_s \times I_s$$

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

$$\Delta Q = m \times c \times \Delta \theta$$

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

$$Q = m \times L$$

**(Turn over)**

**to calculate pressure or volume for gases of fixed mass at constant temperature**

$$P_1 V_1 = P_2 V_2$$

**energy transferred in stretching =  
 $0.5 \times \text{spring constant} \times (\text{extension})^2$**

$$E = \frac{1}{2} \times k \times x^2$$