

Paper Reference(s) 4PH1/1P 4SD0/1P

Pearson Edexcel International GCSE (9–1)

Physics

Unit: 4PH1

Science (Double Award) 4SD0

Paper: 1P

FORMULAE BOOKLET

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QUESTION PAPER.**

You may find the following formulae useful.

energy transferred = current × voltage × time

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

frequency = $\frac{1}{\text{time period}}$

$$f = \frac{1}{T}$$

power = $\frac{\text{work done}}{\text{time taken}}$

$$P = \frac{W}{t}$$

power = $\frac{\text{energy transferred}}{\text{time taken}}$

$$P = \frac{W}{t}$$

orbital speed = $\frac{2\pi \times \text{orbital radius}}{\text{time period}}$

$$v = \frac{2 \times \pi \times r}{T}$$

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

$$v^2 = u^2 + (2 \times a \times s)$$

pressure × volume = constant

$$p_1 \times V_1 = p_2 \times V_2$$

$$\frac{\text{pressure}}{\text{temperature}} = \text{constant}$$

$$\frac{p_1}{T_1} = \frac{p_2}{T_2}$$

Where necessary, assume the acceleration of free fall, $g = 10 \text{ m/s}^2$.