Paper Reference(s) 4PH1/1P 4SD0/1P Pearson Edexcel International GCSE (9–1)

Physics
Science (Double Award) 4SD0
Paper: 1P

Time: 2 hours plus your additional time

allowance

FORMULAE BOOKLET

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You may find the following formulae useful.

energy transferred = current × voltage × time

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

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

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

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

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

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

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

(continued on the next page)

(Turn over)

(final speed)² = (initial speed)² + $(2 \times acceleration \times distance moved)$

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

pressure × volume = constant

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

$$\frac{p_1}{temperature} = constant \qquad \frac{p_1}{T_1} = \frac{p_2}{T_2}$$

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