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.

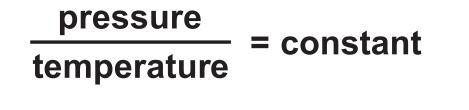
energy transferred = current × voltage × time E = I × V × t

frequency =
$$\frac{1}{\text{time period}}$$
 f = $\frac{1}{\text{T}}$
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 = $\frac{2 \times \pi \times r}{\text{T}}$
(final speed)² = (initial speed)² +
(2 × acceleration × distance moved)
v² = u² + (2 × a)

pressure × volume = constant

 $p_1 \times V_1 = p_2 \times V_2$

×s)



 $\frac{\mathbf{p}_1}{\mathbf{T}_1} = \frac{\mathbf{p}_2}{\mathbf{T}_2}$

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