

Paper Reference(s) 1PH0/1F

Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Physics

Paper 1

Foundation Tier

EQUATIONS BOOKLET

**DO NOT RETURN THIS
EQUATIONS BOOKLET WITH THE
QUESTION PAPER.**

**(final velocity)² – (initial velocity)² =
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 = $0.5 \times$
spring constant \times (extension)²**

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