



What equations do I need to know for the AQA GCSE physics exam for the Magnetism and Electromagnetism topic?

Equations given in exam	
Force = magnetic flux density \times current \times length	$F = B \times I \times l$
$\frac{\text{potential difference across the primary coil}}{\text{potential difference across the secondary coil}} = \frac{\text{Number of turns in primary coil}}{\text{Number of turns in secondary coil}}$	$\frac{V_P}{V_S} = \frac{n_P}{n_S}$
potential difference across the primary coil \times current in primary coil = potential difference across the secondary coil \times current in secondary coil (for 100% efficiency)	$V_P \times I_P = V_S \times I_S$

All required equations in this topic are provided in the exam and are Higher Tier entry only.