

OCR (B) Physics A-level

PAG 09.2 - Investigating Capacitors in Series and Parallel

Practical Flashcards

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How can the combined capacitance of capacitors in series be calculated?











How can the combined capacitance of capacitors in series be calculated?

The combined capacitance is given by the inverse of the sum of the inverses of the individual capacitances:

$$1/C = 1/C_1 + 1/C_2 + 1/C$$









How can the combined capacitance of capacitors in parallel be calculated?











How can the combined capacitance of capacitors in parallel be calculated?

The combined capacitance is given by the sum of the individual capacitances:

$$C = C_1 + C_2 + C_1$$









What equation links charge and current?











What equation links charge and current?

Charge = Current x Time

$$Q = I \times t$$













What must you ensure you do when working using electrolytic capacitors?











What must you ensure you do when working using electrolytic capacitors?

Electrolytic capacitors must be connected with the correct polarity in the circuit. The polarity should be checked before switching on the power supply.





