## Charge, Current and Potential Difference

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## Notes

# You ought already to have printed a copy of the notes with blanks in from E:HEBER:

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# Lesson Objectives

- 1 To know what an electrical current is.
- 2 To be able to define basic electrical units.
- **3** To do some simple calculations.

Textbook pp. 46–50

**REMINDER**: Office hours are week 1 Tuesdays 3.45–5.0 p.m. in room 19.

Next office hours: Tuesday 25 September 2012

## Specification Requirement

### Charge, current and potential difference

Electric current as the rate of flow of charge; potential difference as work done per unit charge.

$$I = \frac{\Delta Q}{\Delta t}$$
 and  $V = \frac{W}{Q}$  Resistance is defined by  $R = \frac{V}{I}$ 

[AQA GCE AS and A Level Specification Physics A, 2009/10 onwards]