

AC and DC

Edexcel International GCSE Physics · Electricity

Mains *draw the symbol*

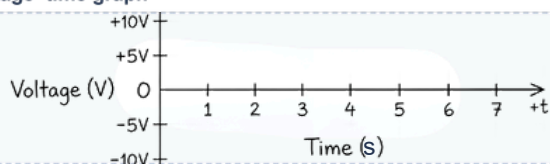
Cell *draw the symbol*

Alternating Current (a.c.)

Definition

KEY WORDS **changes direction**

Voltage–time graph

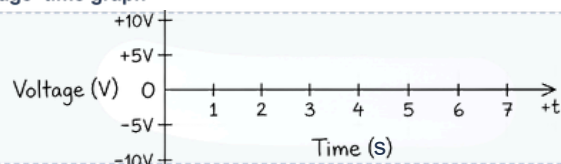


Direct Current (d.c.)

Definition

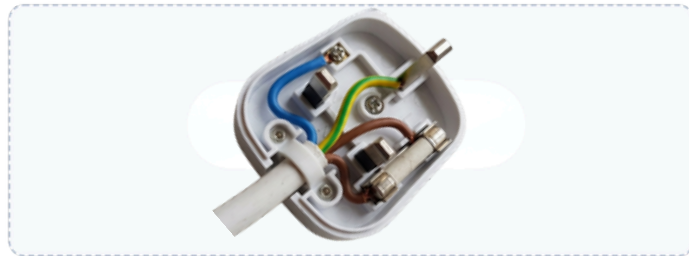
KEY WORDS **one direction**

Voltage–time graph



Mains Electricity — the three-core cable

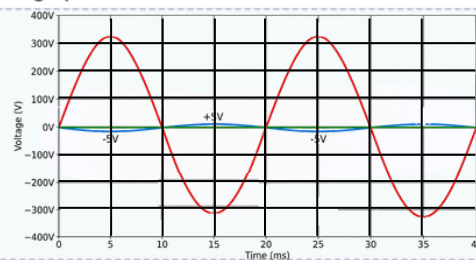
The plug & cables



Label the **live**, **neutral** and **earth** wires and give the colour of each.

Most dangerous wire (must be connected to the fuse): _____

Voltage–time graph of the three wires



Exam-style question

[5 marks]

A radio can be powered by a battery or by the mains supply.

(a) State the type of current supplied by the **battery**.

(1)

(b) State the type of current supplied by the **mains**.

(1)

(c) Explain the difference between direct current (d.c.) and alternating current (a.c.). (2)

(d) Sketch a voltage–time graph for the **mains**.

(1)

