

Edexcel GCSE Physics

Topic 10.1-10.2 - Current and Circuit Components

Flashcards

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What three subatomic components make up an atom?



What three subatomic components make up an atom?

- Electrons
- Protons
- Neutrons



Describe the structure of an atom



Describe the structure of an atom

- Neutrons and protons in the nucleus
- Electrons surrounding the nucleus in shells



An atom contains two types of charged particles, name both of them and state their charges.



An atom contains two types of charged particles, name both of them and state their charges.

- Proton (+1)
- Electron (-1)



In a closed circuit, if there is a potential difference in the circuit there will also be
a ...



In a closed circuit, if there is a potential difference in the circuit there will also be a ...

Current



How is current defined?



How is current defined?

As the rate of flow of charge (or electrons) around a circuit.



What are the units of charge?



What are the units of charge?

Coulombs, C.



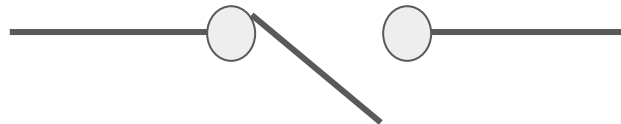
Draw the circuit symbol for a switch.



Draw the circuit symbol for a switch.



Closed



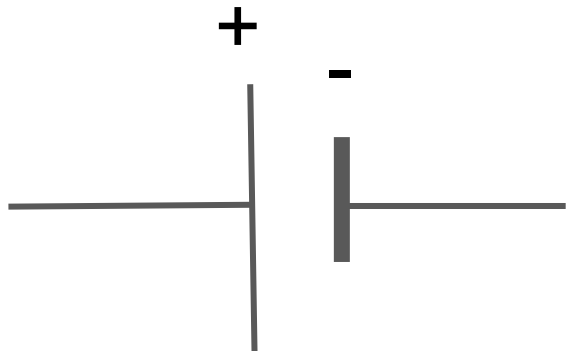
Open



Draw the circuit symbol for a cell.



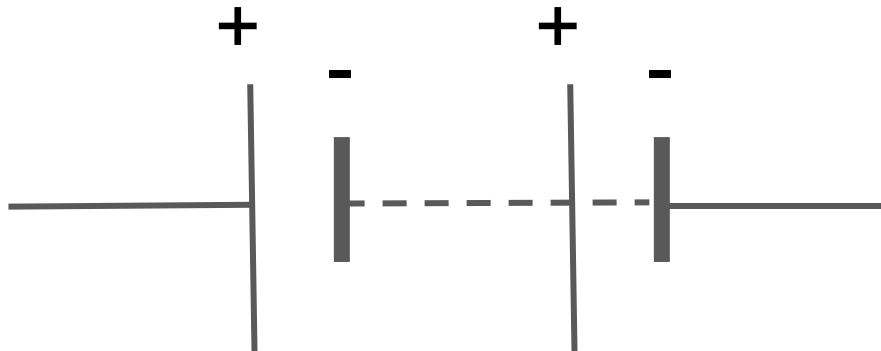
Draw the circuit symbol for a cell.



Draw the circuit symbol for a battery.



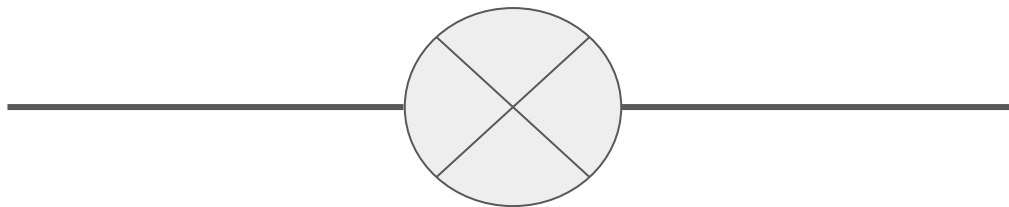
Draw the circuit symbol for a battery.



Draw the circuit symbol for a lamp.



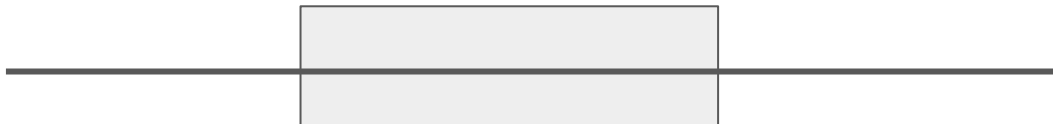
Draw the circuit symbol for a lamp.



Draw the circuit symbol for a fuse.



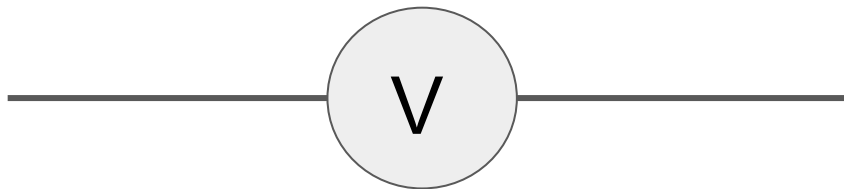
Draw the circuit symbol for a fuse.



Draw the circuit symbol for a voltmeter.



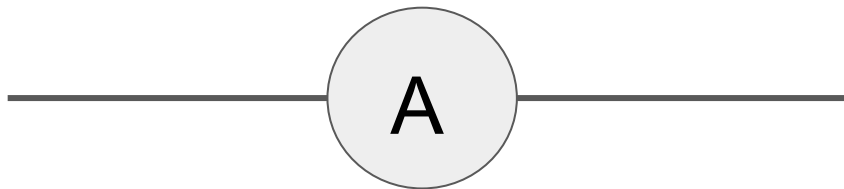
Draw the circuit symbol for a voltmeter.



Draw the circuit symbol for an ammeter.



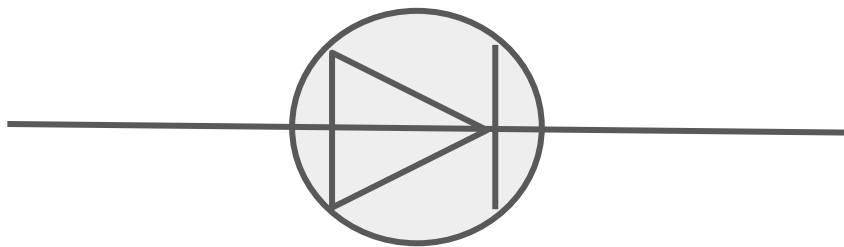
Draw the circuit symbol for an ammeter.



Draw the circuit symbol for a diode.



Draw the circuit symbol for a diode.



Draw the circuit symbol for a resistor.



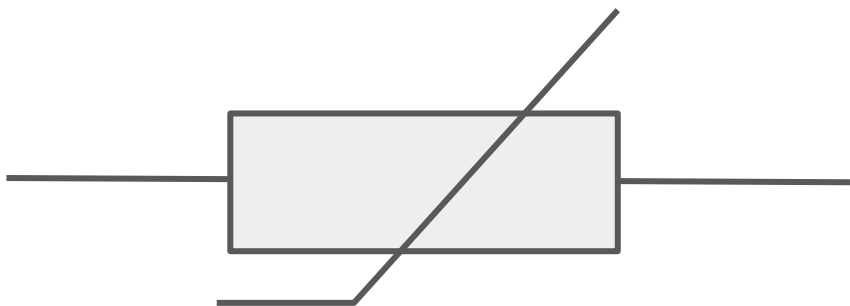
Draw the circuit symbol for a resistor.



Draw the circuit symbol for a thermistor.



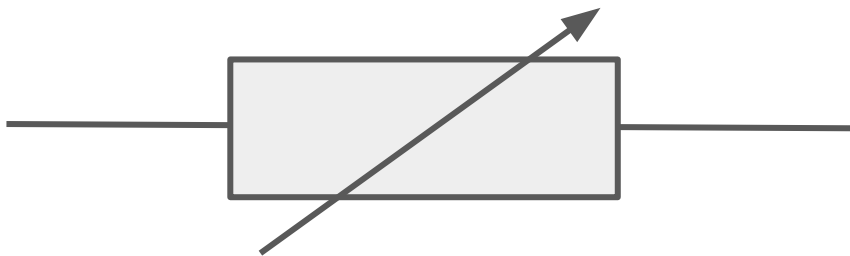
Draw the circuit symbol for a thermistor.



Draw the circuit symbol for a variable resistor.



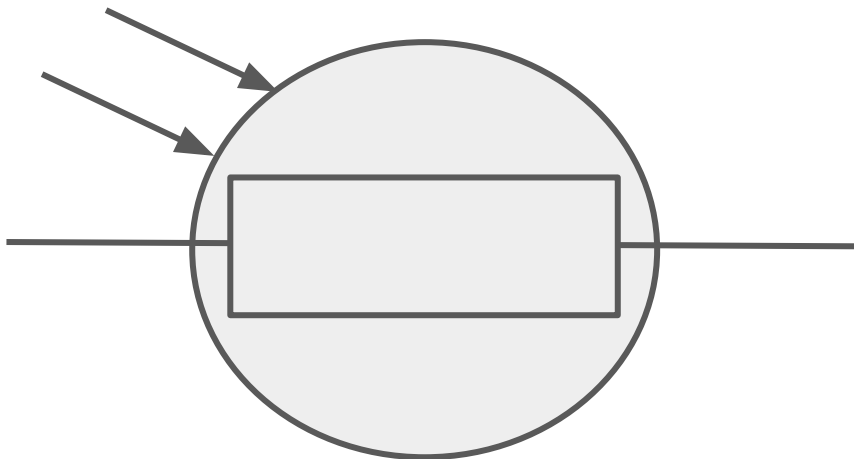
Draw the circuit symbol for a variable resistor.



Draw the circuit symbol for an LDR.



Draw the circuit symbol for an LDR.



Draw the circuit symbol for an LED.



Draw the circuit symbol for an LED.

