

Sticky Knowledge

I can describe whether an appliance is battery or mains operated.

I can construct an electrical circuit.

Prior Knowledge

I can name a range of electric appliances.

I know the difference between battery and mains operated.

Many common appliances run on electricity. Electricity enables the appliance to work properly. Some appliances are mains operated (plug) and some are battery operated.



Battery Operated



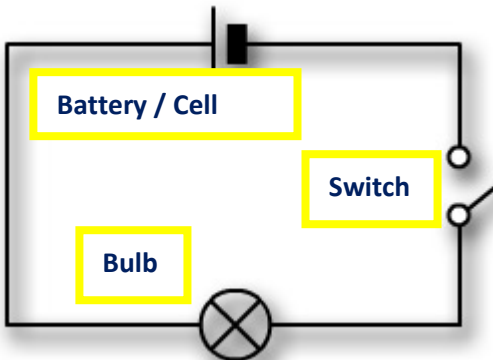
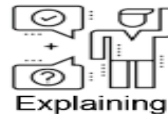
Mains Operated



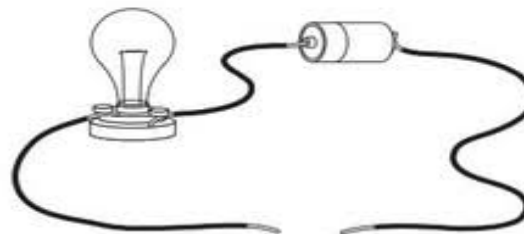
Electricity Knowledge Organiser



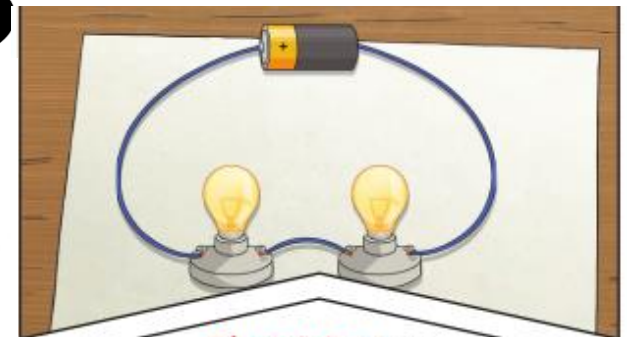
Vocabulary



A circuit looks like this when we draw it.



Circuit	It conducts electricity flow around using wires.
Battery operated	Something that works using a battery.
Mains operated	Something that needs to be plugged in to work.



Electricity can only flow around a complete **circuit** that has no gaps. There must be wires connected to both the positive and negative end of the power supply/**battery**.

Some circuits have a switch in them. If the circuit breaks, electricity will not run through and the light will not turn on. It must be complete. See picture on the left.