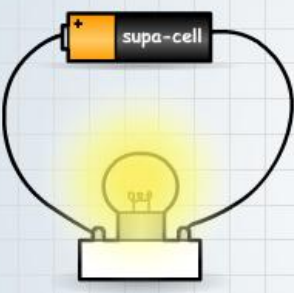



# What Makes Circuits Work?



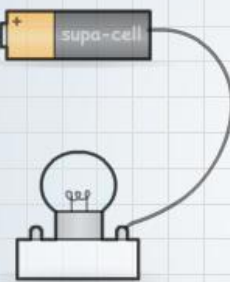
Circuits need to be complete for them to work properly.

This means that the wires must go in a full loop around from the power source and back again.

Circuits that are not complete will not work!




Next



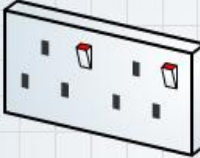
Circuits that are not complete will not work because the electricity can not travel around them properly.


None of these circuits are complete, so none of them will work.

Can you see why?




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Mains → 


Batteries → 

A power source can be either **cells** (batteries) or mains.


Remember that **mains** electricity is MUCH more powerful than batteries and can be very dangerous. DO NOT mess around with **electric mains!!**



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correct



wrong

If you are using more than one **cell** in a circuit, remember that they need to be connected so that they are all facing the same direction in the circuit.

The positive (bumpy end) of one **cell** should connect to the negative (flat end) of the next.



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