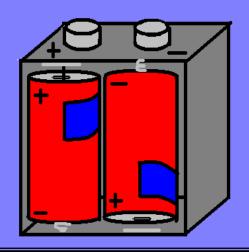


Make a circuit

We are going to make a circuit that will make the bulb light up.

To do this we need......

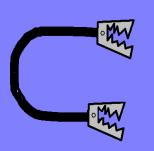


...batteries in a battery box...

...a light bulb...

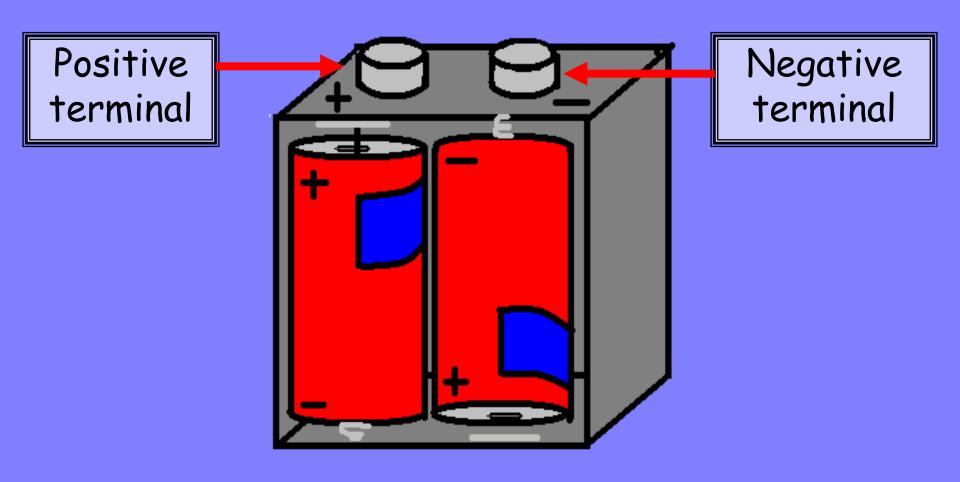


...electrical wires and crocodile clips.



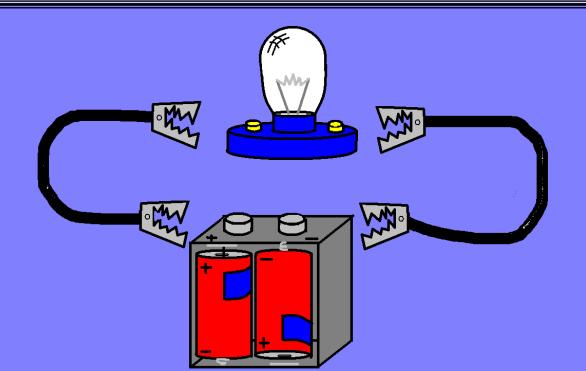


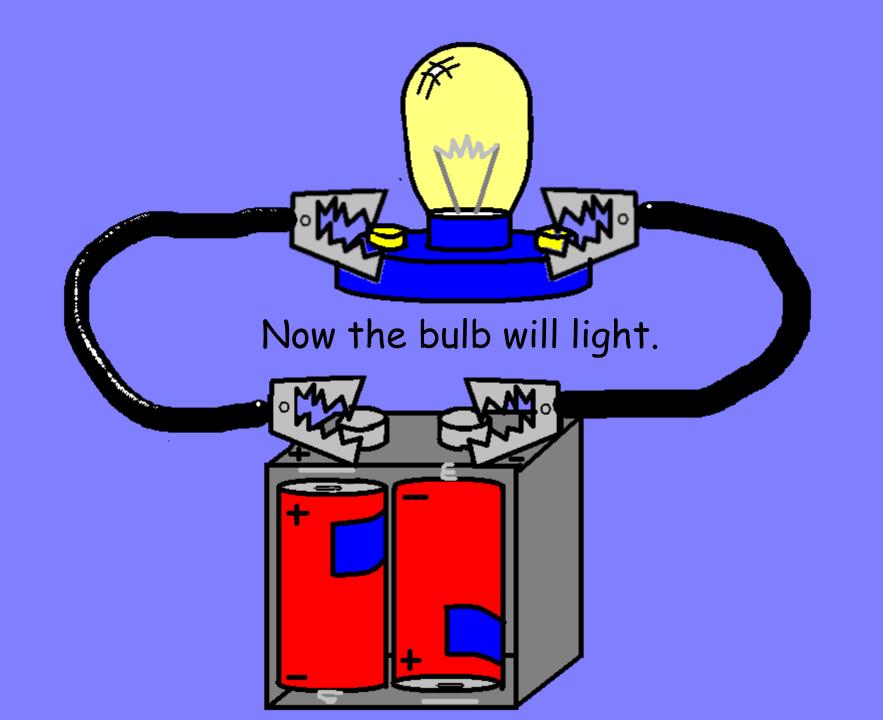
The battery box has a positive and a negative terminal. The batteries are not the same way up.

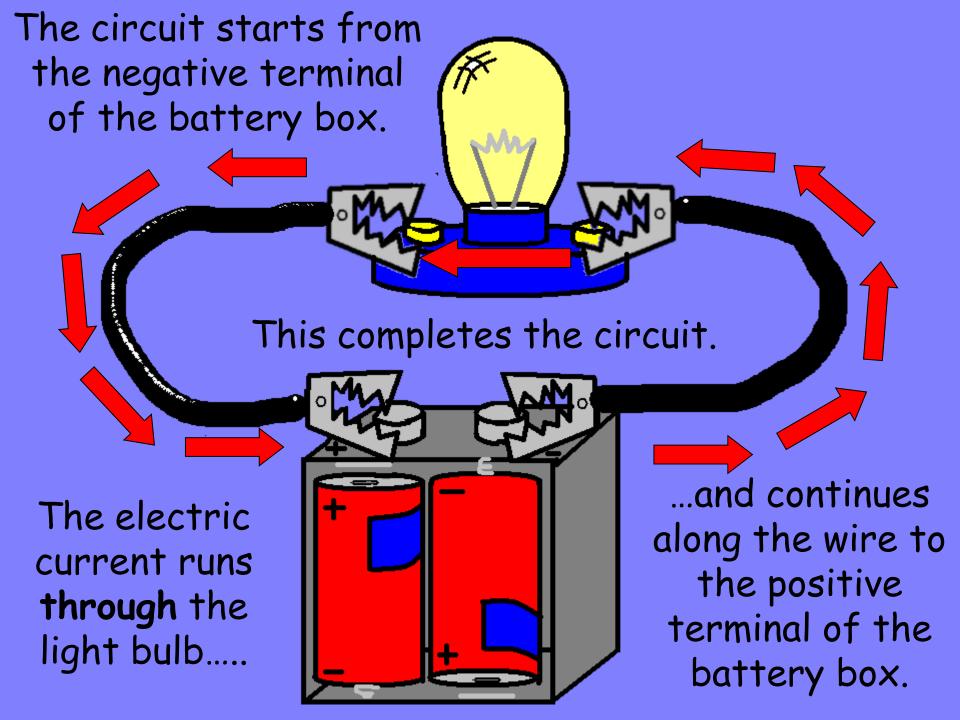


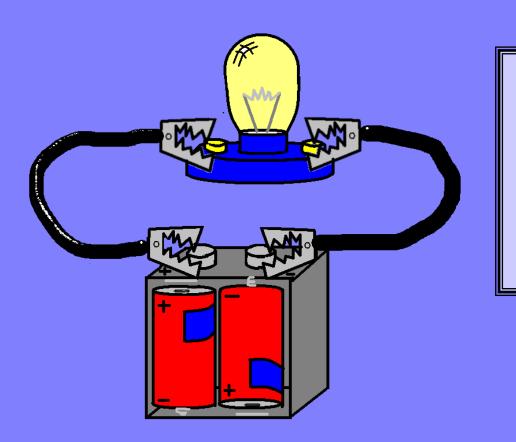
Make the circuit

When you have collected all of the equipment you can start to make the circuit.





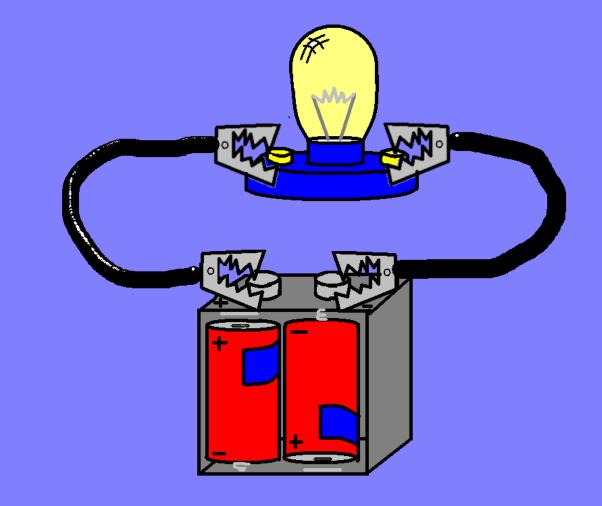




The circuit only works when everything is connected correctly.

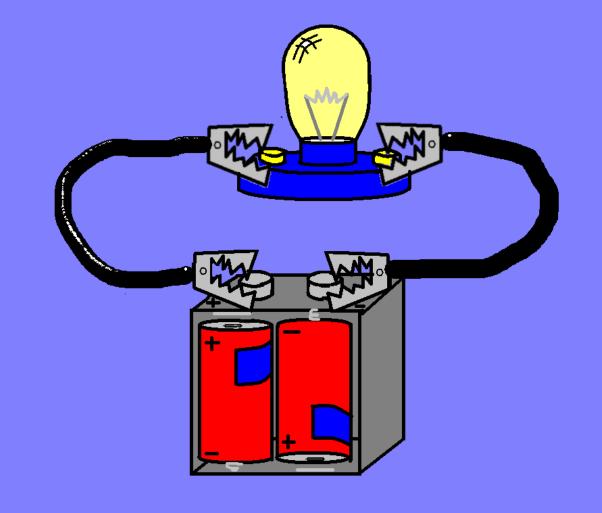
Look at the next few pictures. See if you can guess whether the circuits will light up or not. Can you see what might be wrong with them?

This circuit will not light because the wires are not all connected.



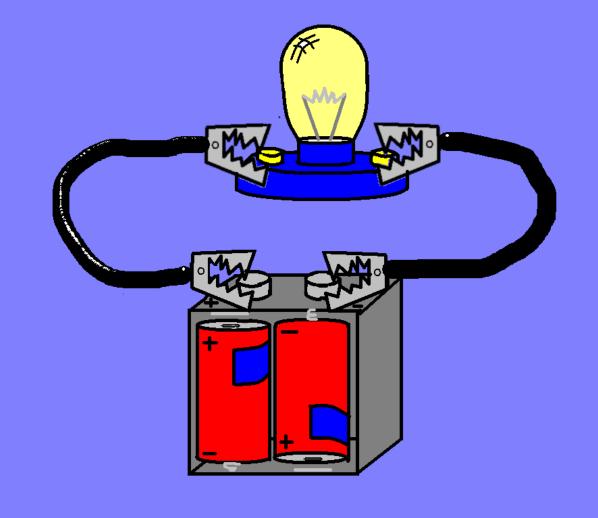
When the wires are all connected the circuit will work.

This circuit
will light
because
everything is
connected
properly.



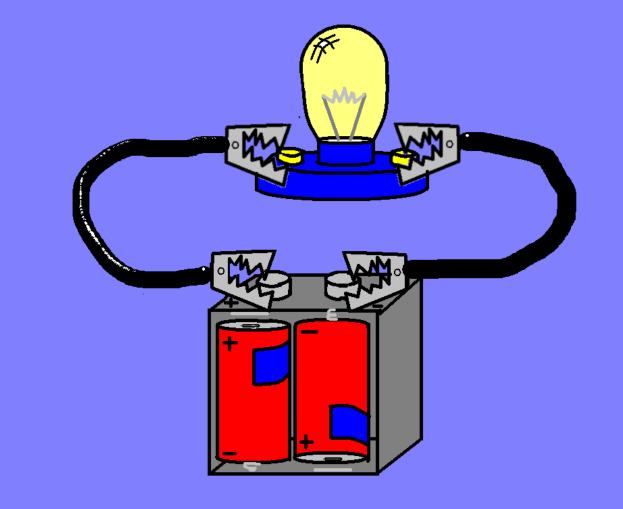
This keeps the circuit working properly.

This circuit will not light because the batteries are facing the same way up in the battery box.



When the batteries are the right way round the circuit will work.

This circuit will not light because one of the wires is attached to the glass part of the light bulb.



When the wire is properly connected to the battery terminal the circuit will work.

