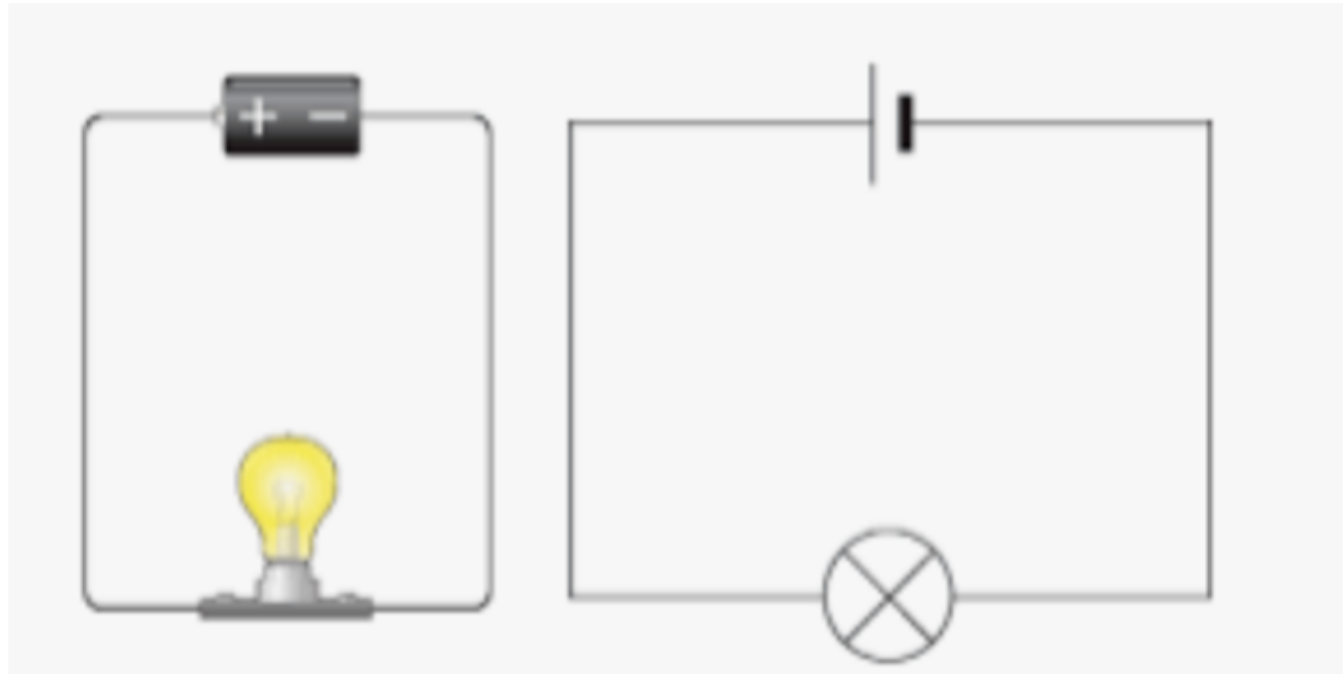


## Making A Circuit

LO: To construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers

To identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery.



# Making a Circuit

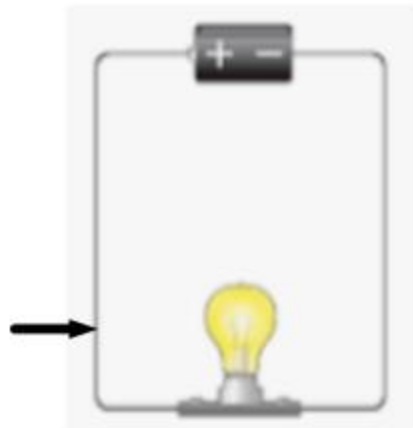
In a simple circuit you will need a battery (cell), some wires to carry the electricity and a light bulb.



To make the light bulb light up:

1. one end of the wire needs connecting to an end of the battery, (cell) being attached metal to metal
2. the opposite ends of the wire need to connect to the bulb - they need to touch the metal holder
3. a complete circuit needs to be made with no breaks in the circuit - this will be like a loop
4. the + and - ends of the battery need to be connected to a wire

It should look something like this



# Making a Circuit

Now try to draw a circuit that

1. should light a light bulb

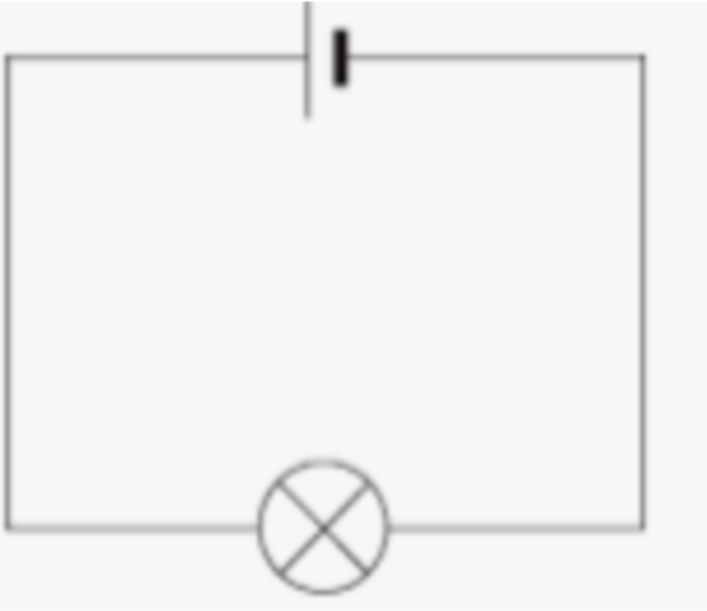
Which circuit will NOT light the bulb? Why?



2. should not light the light bulb because it has not been connected properly.

## Using Symbols to Draw a Circuit

Symbols are often used to draw an electrical circuit. Look below.



How is the light bulb represented?

What about the battery (cell)?

Try and draw a circuit using the correct symbols.

Can you draw a circuit that will not work?

## Does the circuit work?

Look at the circuits below.

Do you think they will light the bulb? If not, think about what is wrong with the circuit and how you could solve it?

