

# Year 4 Science

## Electricity



### Quick Quiz

1. Who discovered electricity?
2. What is electricity measured in?
3. Write two things you should never do with electrical items.

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### Quick Quiz

1. Who discovered electricity?

**Benjamin Franklin**

2. What is electricity measured in?

**Watts**

3. Write two things you should never do with electrical items.

**Put them in water, never remove a plug by pulling the cord, clean it while it is plugged in.**

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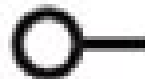
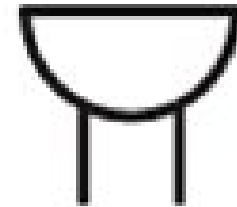
Today, we will be learning  
to understand how  
electricity works

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Pictured below are the different components of a circuit. Do you know what they are? Research and the answers will be at the end of the lesson.

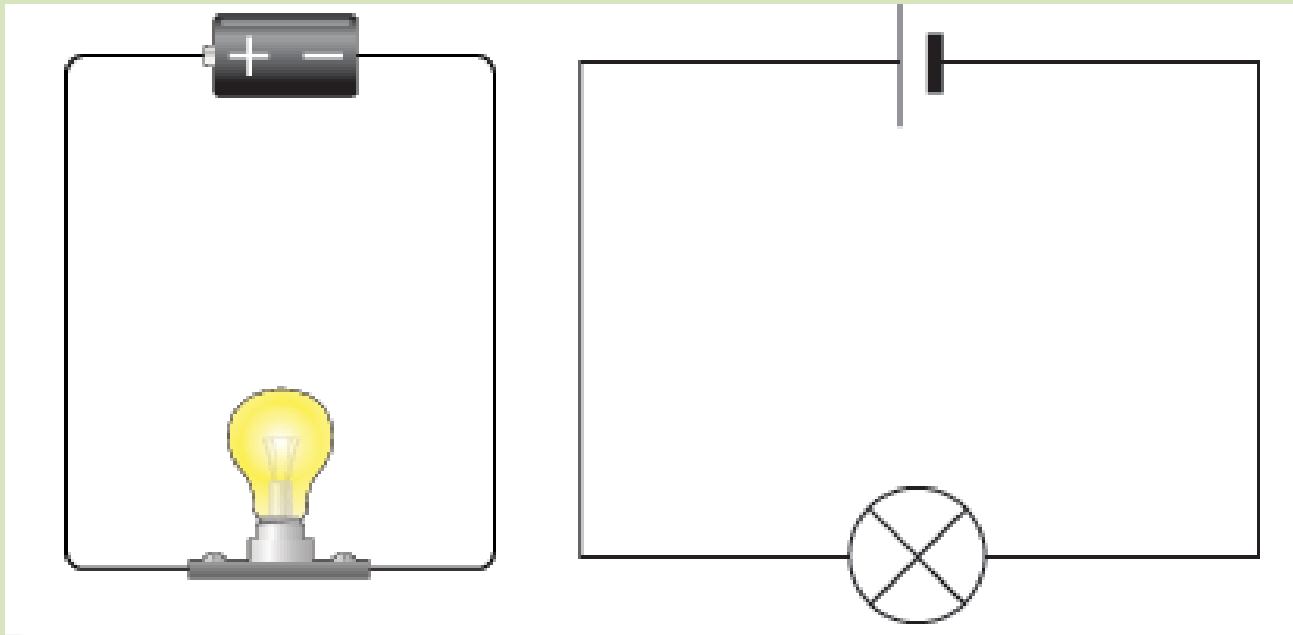


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Pictured below is an electrical circuit. A circuit is a complete path around which electricity can flow.

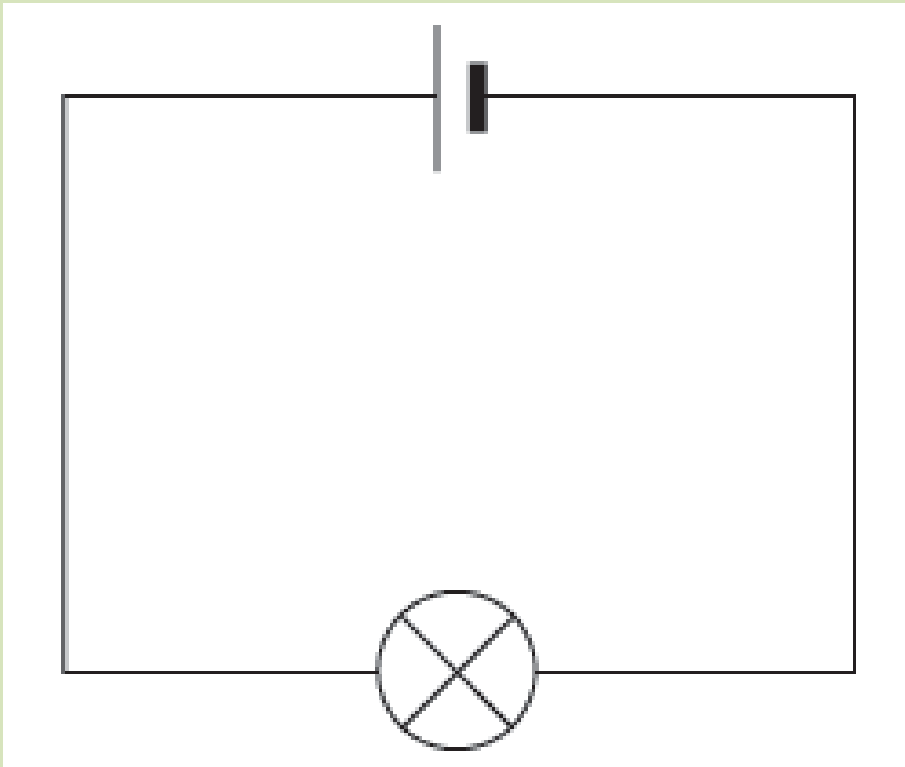


What it looks like

Electrical diagram

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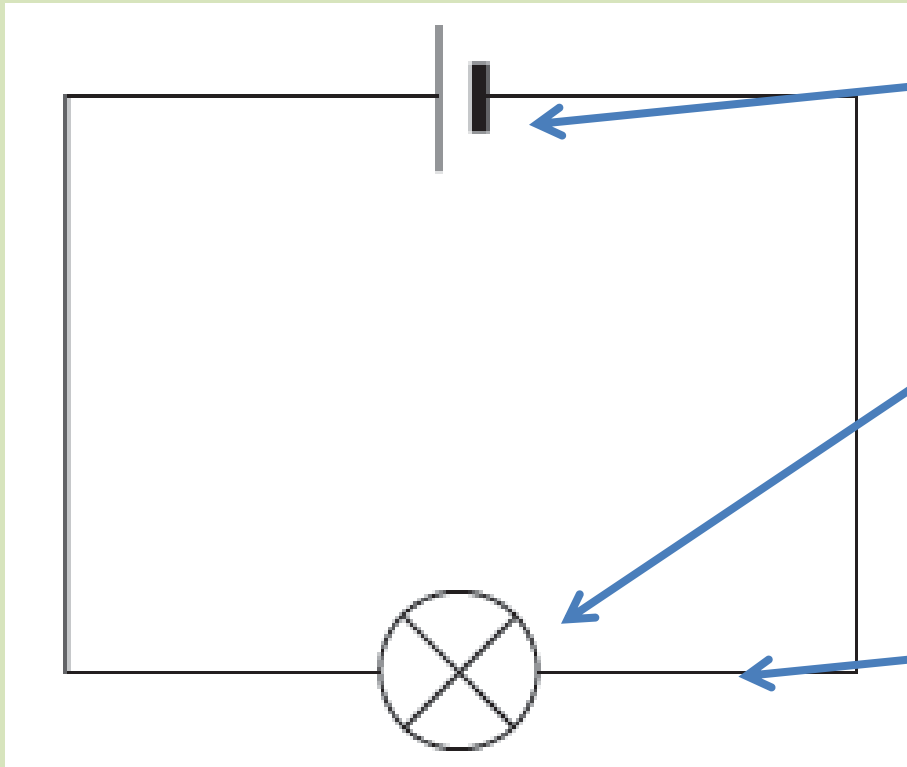
In this diagram, what is the power source? (Where is the electricity coming from?)

What is using the electricity to work?

How does the electricity get from the source to the component using it?

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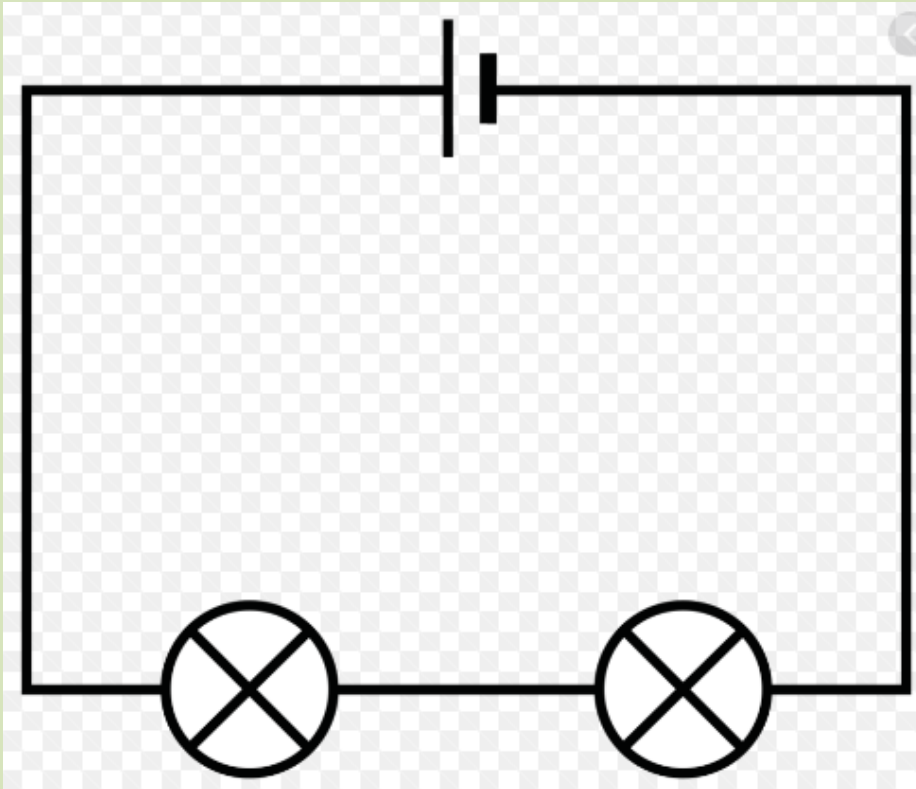
The power source is the battery.

The bulb is using the electricity to light up.

The electricity gets to the bulb from the battery by travelling through the wires.

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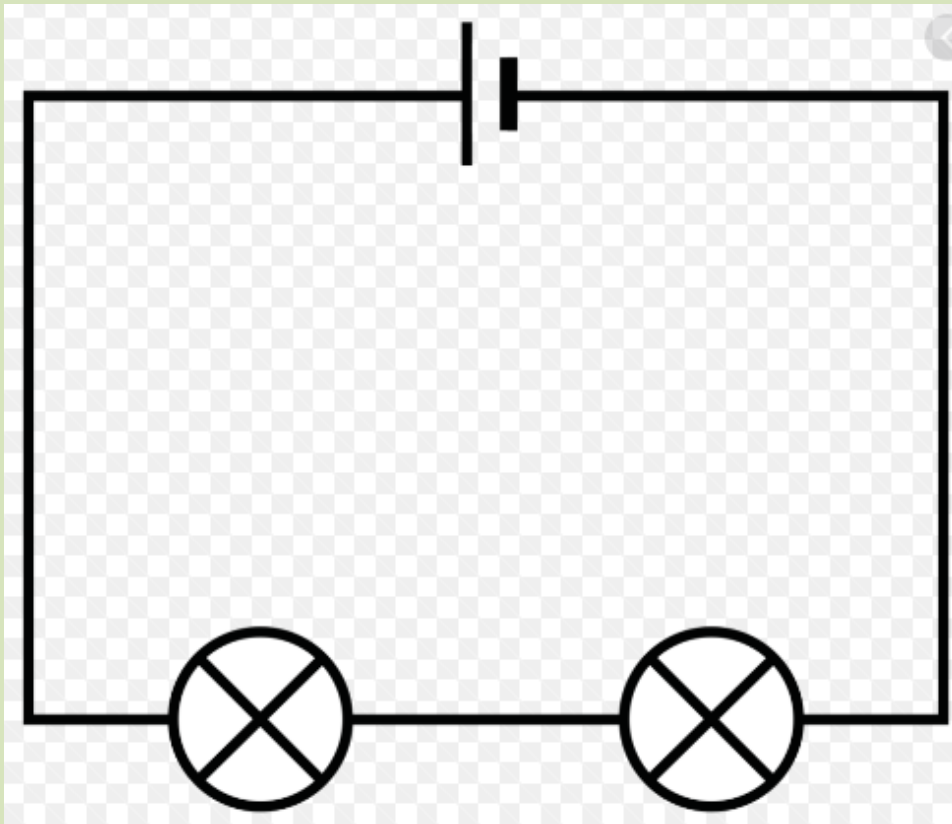
This circuit has two bulbs, but still just one battery.

What difference will this make to the bulbs?



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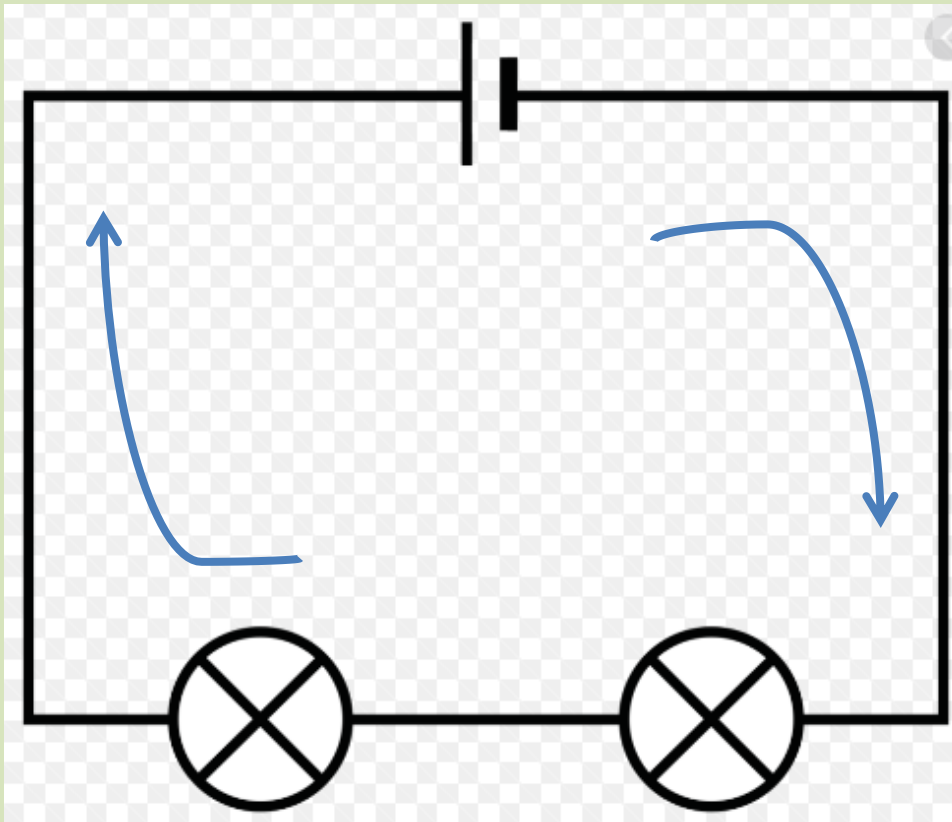
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This circuit has one battery, so produces the same amount of electricity. However, the electricity is being shared between the two bulbs so they'll be dimmer (less bright).

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Electricity can only flow in one direction.

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### Task

Draw a simple circuit in your books and label what each component (part) of the circuit is.

Write an explanation underneath of how a circuit works.

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Battery



Wire



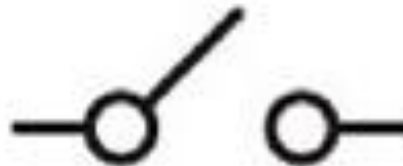
Bulb



Buzzer



Motor



Switch (off)



Switch (on)

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### **How does electricity work?**

The flow of electricity needs to have an unbroken sequence of connections so that it can flow around it completely.