Switch It On!

Building simple series circuits





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Today we will...

WE ARE LEARNING TO

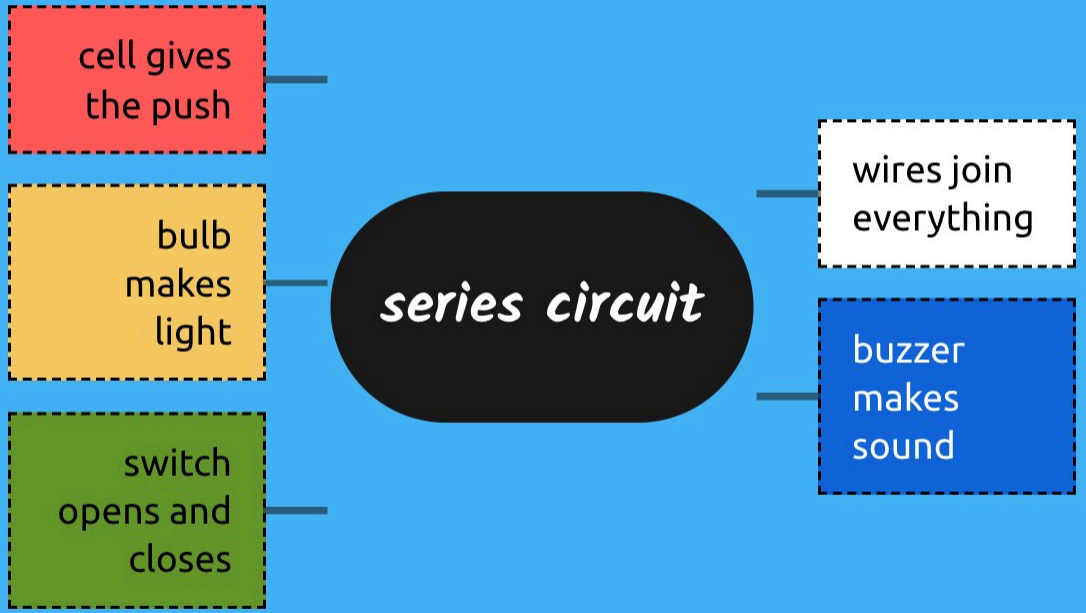
- Build a simple series circuit in a loop
- Name cells, wires, bulbs, switches and buzzers
- Use a switch to open and close a circuit

SUCCESS LOOKS LIKE

- ✓ I can name the parts of my circuit
- ✓ I can make a bulb light and a buzzer sound
- ✓ I can explain a complete loop

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What makes a circuit?



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Meet the parts



Cell

Gives the push that moves electricity.



Wires

Metal paths that join the loop.



Bulb

Changes electricity into light.



Switch

Opens and closes the loop.



Buzzer

Changes electricity into sound.

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Think, pair, share

You joined everything up but the bulb stays dark. What could be wrong?





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Parts of a Circuit



▶ 0:00 – 5:00

- Listen for cell, wire, bulb, switch, buzzer
- Watch how parts join in one loop

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BIG IDEA

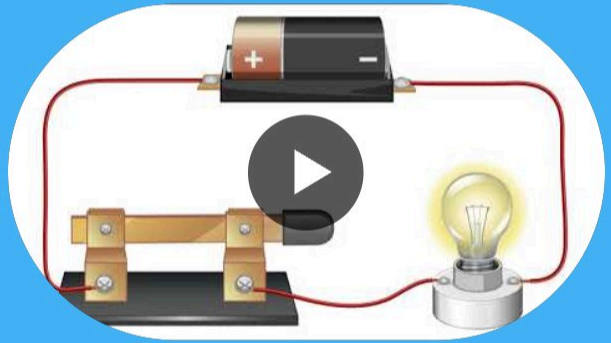
Electricity only works in a complete loop with no gaps.





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Setting Up a Simple Circuit



▶ 0:00 – 1:26

- Watch the order to join the parts
- Spot what makes the bulb light up

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Your task

In pairs, build a simple series circuit to light a bulb.

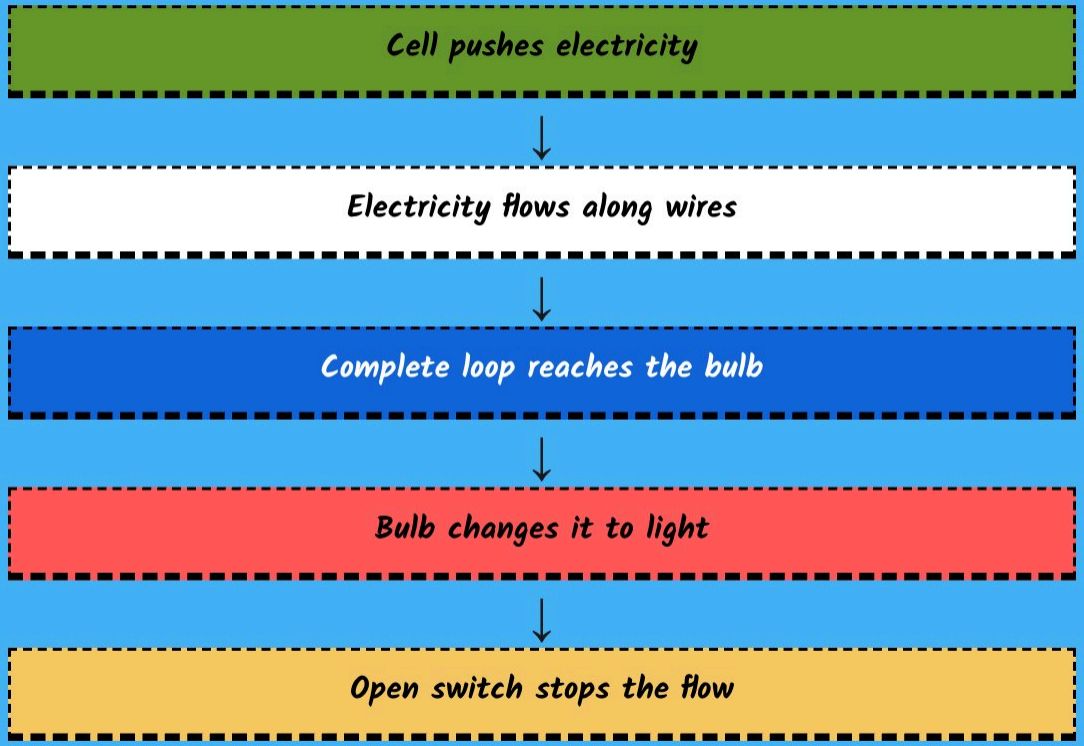
1. Join cell, wires and bulb in one loop
2. Add a switch and test on and off
3. Swap the bulb for a buzzer

15 min

In pairs

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How a bulb lights



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Most important part?

If you lost one part, which would you miss most?

A Cell

B Wires

C Bulb or buzzer

D Switch

Vote with your hands, then explain why.

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Quick quiz

1. What does a cell do?
2. What is a series circuit?
3. What does a switch do?
4. Why does a bulb stay dark?

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