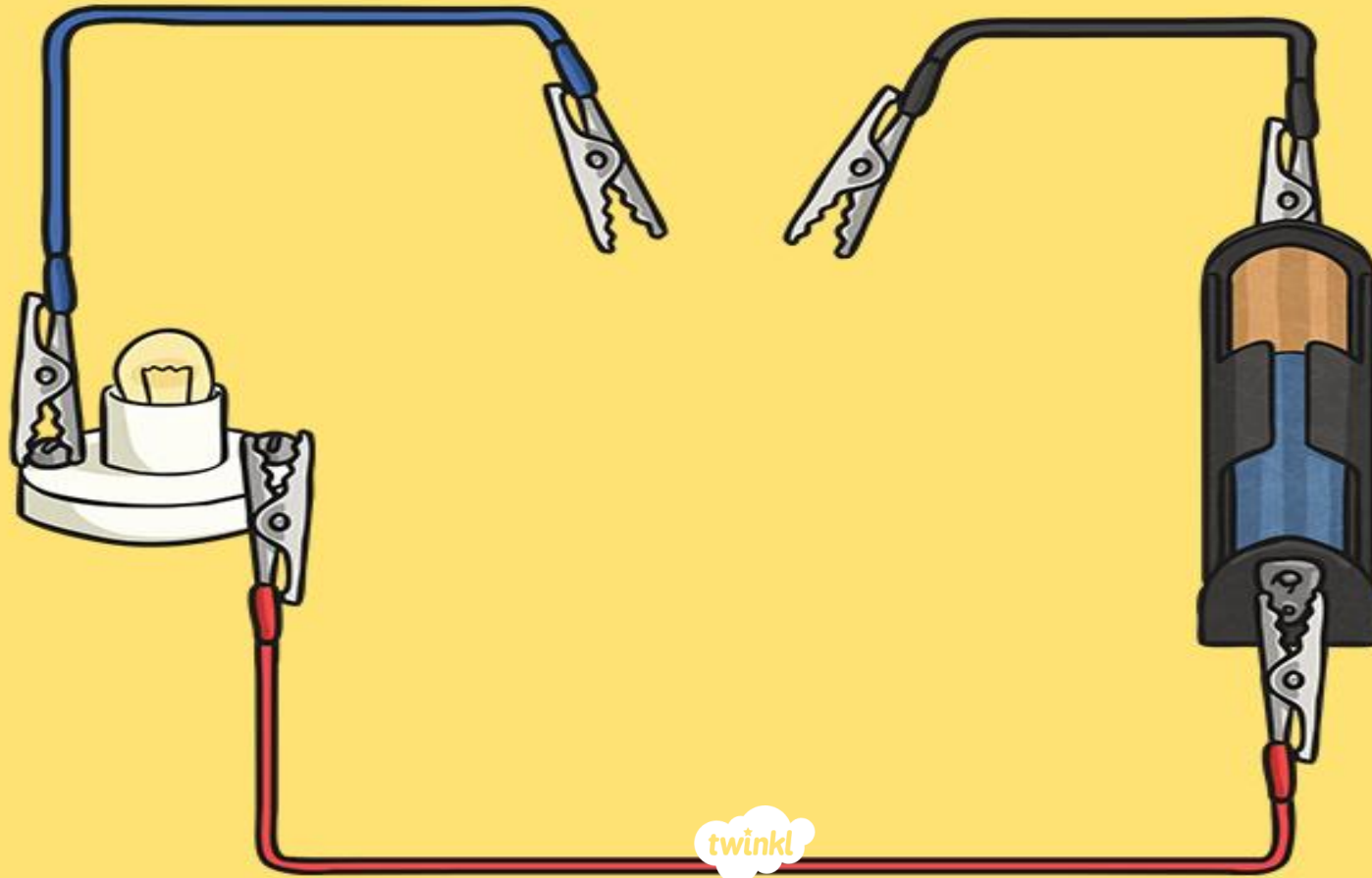




TUESDAY 19TH JANUARY 2021

LO: TO IDENTIFY WHAT MAKES A CIRCUIT COMPLETE.

Electrical Circuits



Electricity



Check what you can remember from our previous lessons:

Can you give an example of how electricity is found naturally?

What is 'current electricity'?

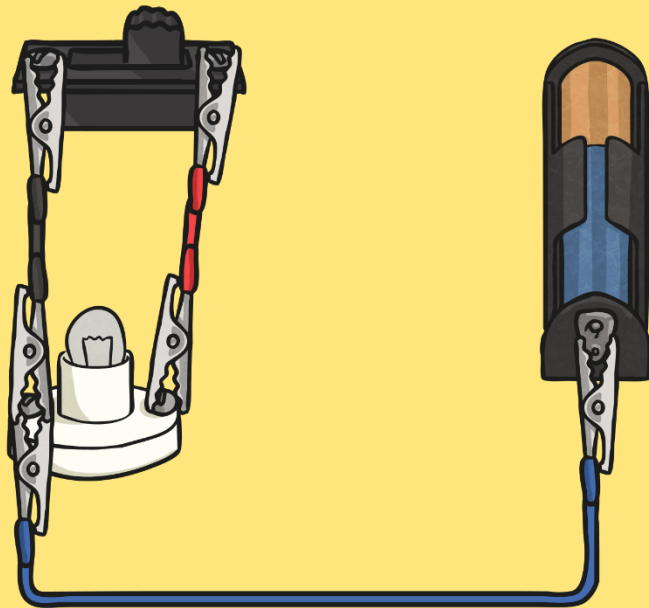
Mains electricity is one type of electrical current. Can you name another type?

Can you name a non-renewable method of generating electricity?

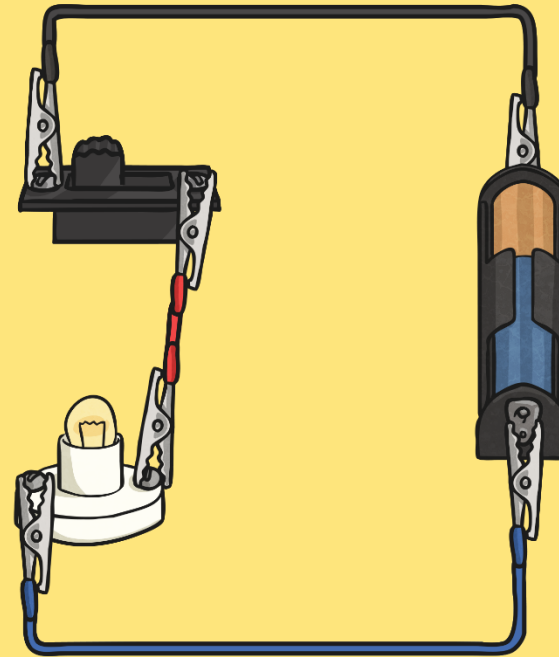
Complete and Incomplete Circuits

An electrical circuit can be complete or incomplete.

Incomplete Circuit



Complete Circuit



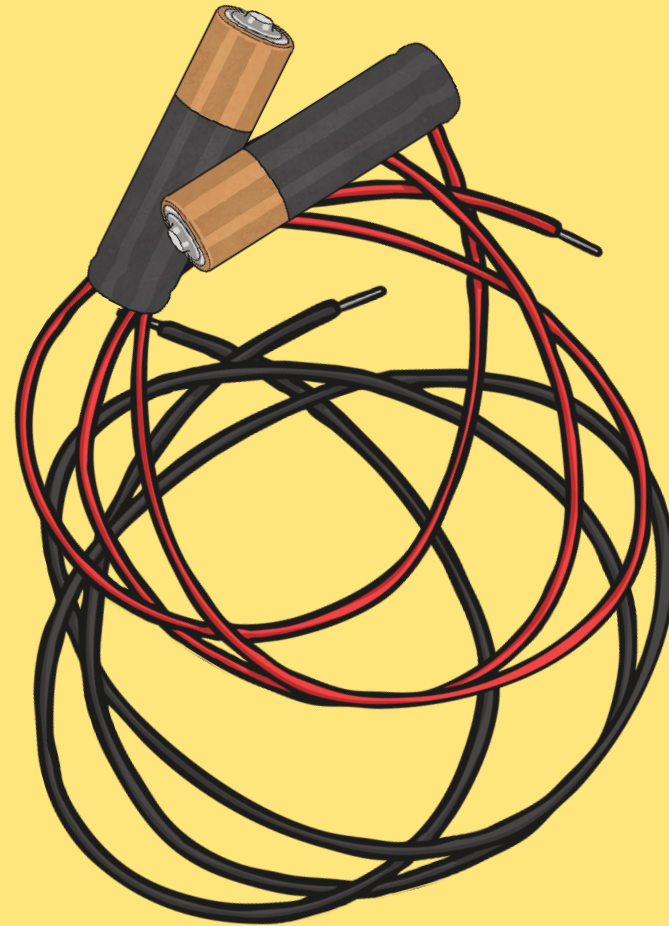
Complete and Incomplete Circuits

Current electricity is the flow of electrical charge through materials.

Every complete circuit must have a power supply. The power supply could be the mains, or it could be a battery.

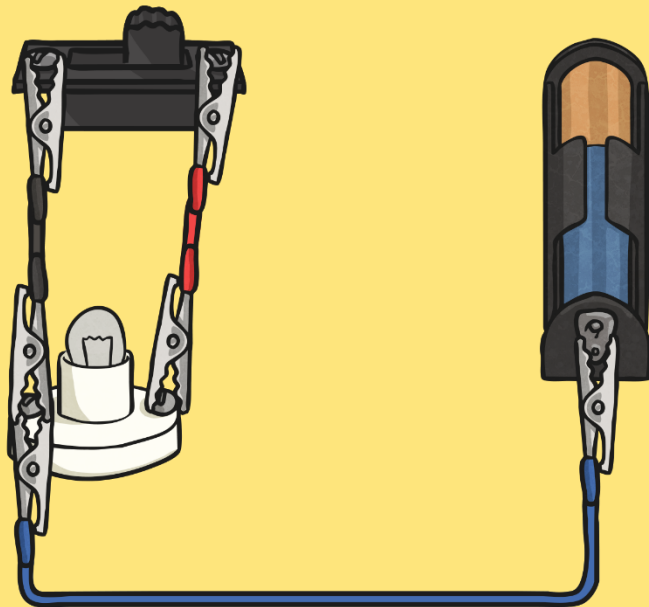
For a circuit to be complete, there must be wires connected to both the positive and negative ends of the power supply.

Electricity can only flow around a complete circuit that has no gaps.



Complete and Incomplete Circuits

Incomplete Circuit



This circuit is incomplete.

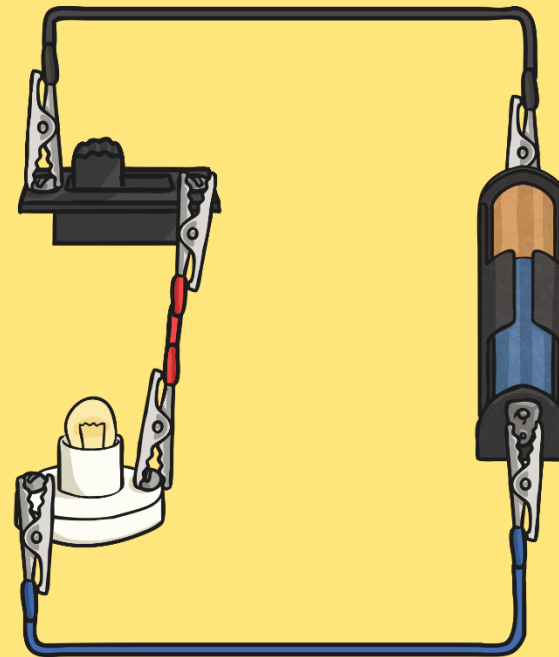
1. There is a gap in the circuit, so the electrical current cannot flow around it.
2. The wires do not connect to the positive and negative ends of the power supply (the battery).

Complete and Incomplete Circuits

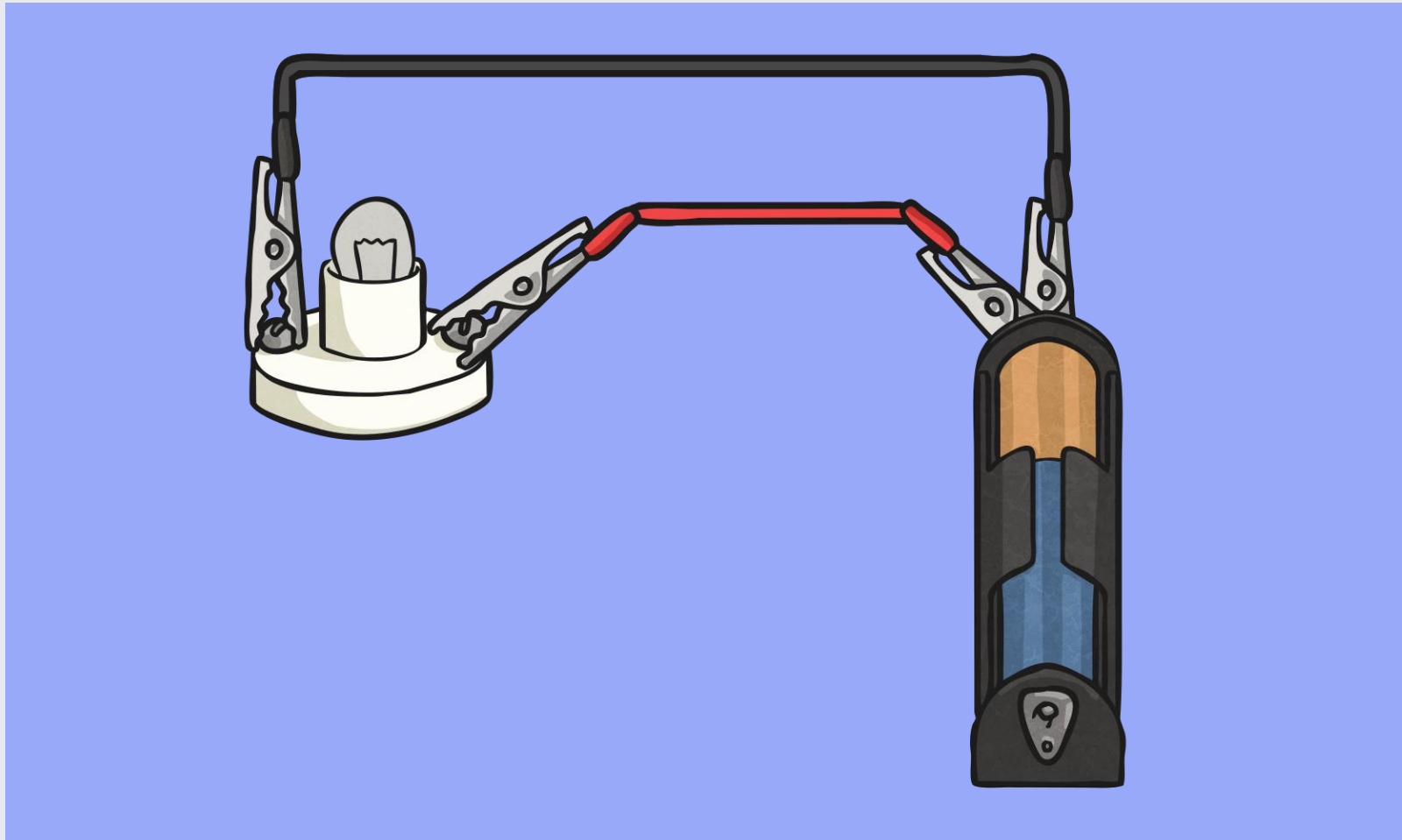
This is a complete circuit.

1. There is a power supply (the battery).
2. There are no gaps anywhere, so the electrical current can flow around the entire circuit.
3. The wires connect to both the positive and negative ends of the battery.

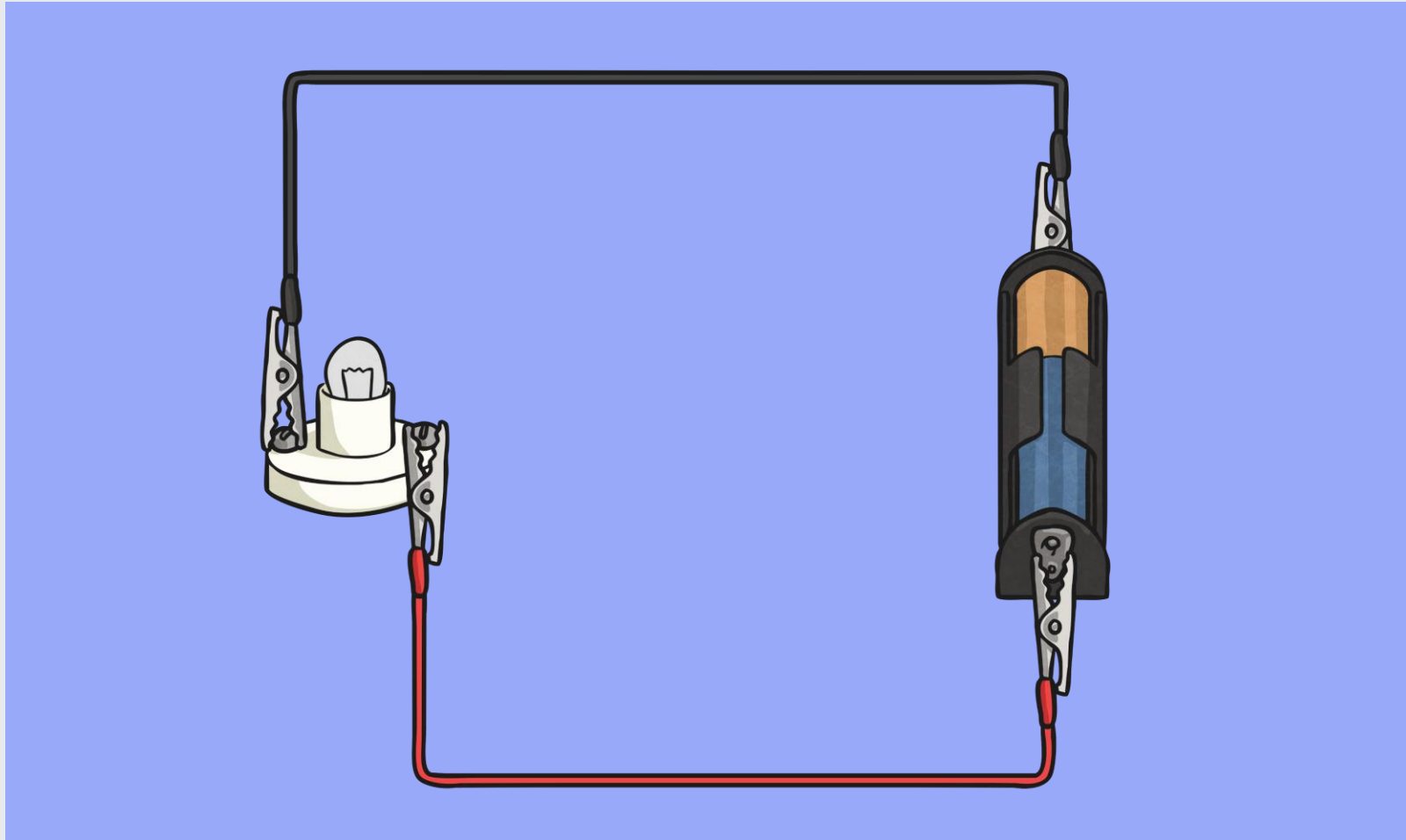
Complete Circuit



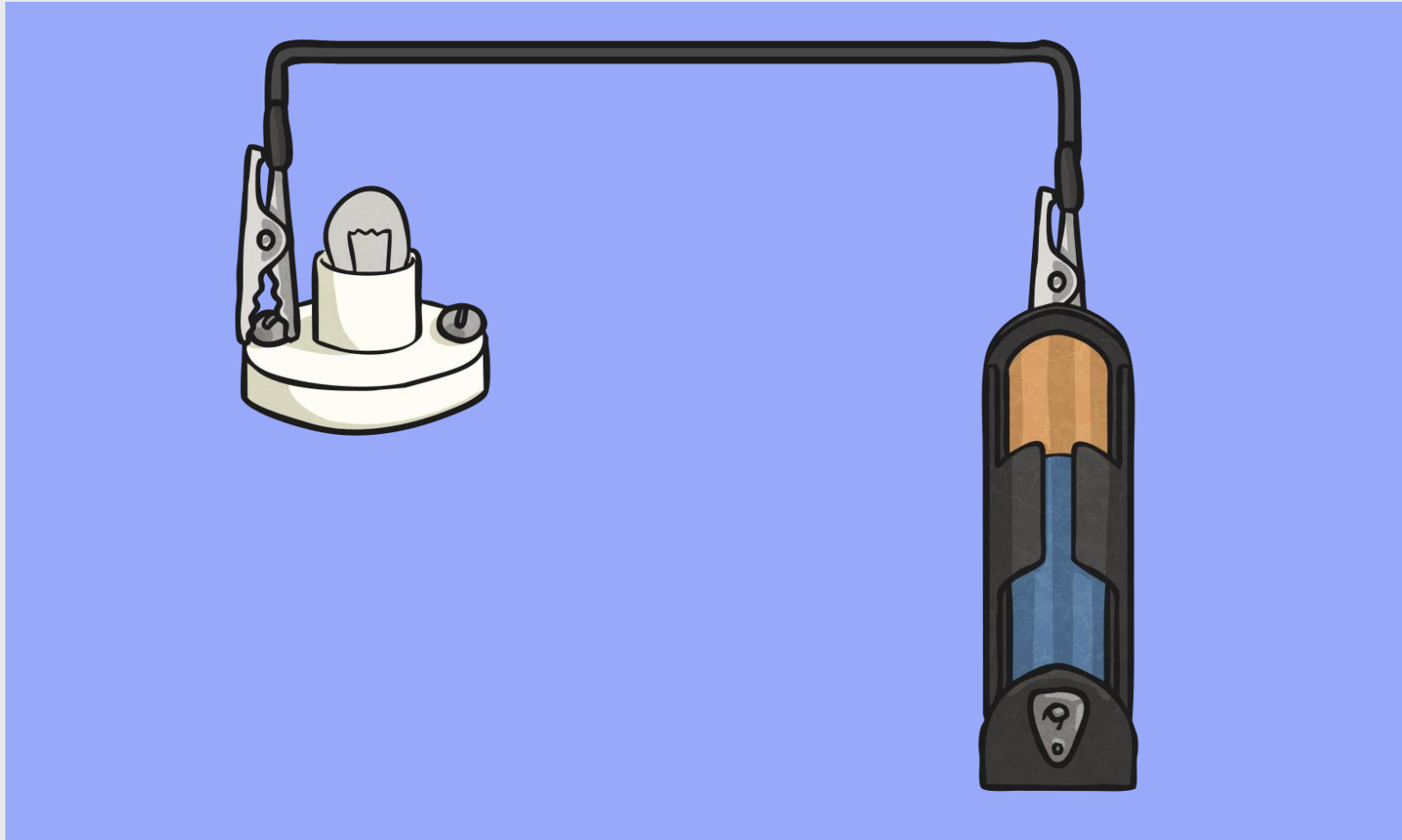
Complete or Incomplete?



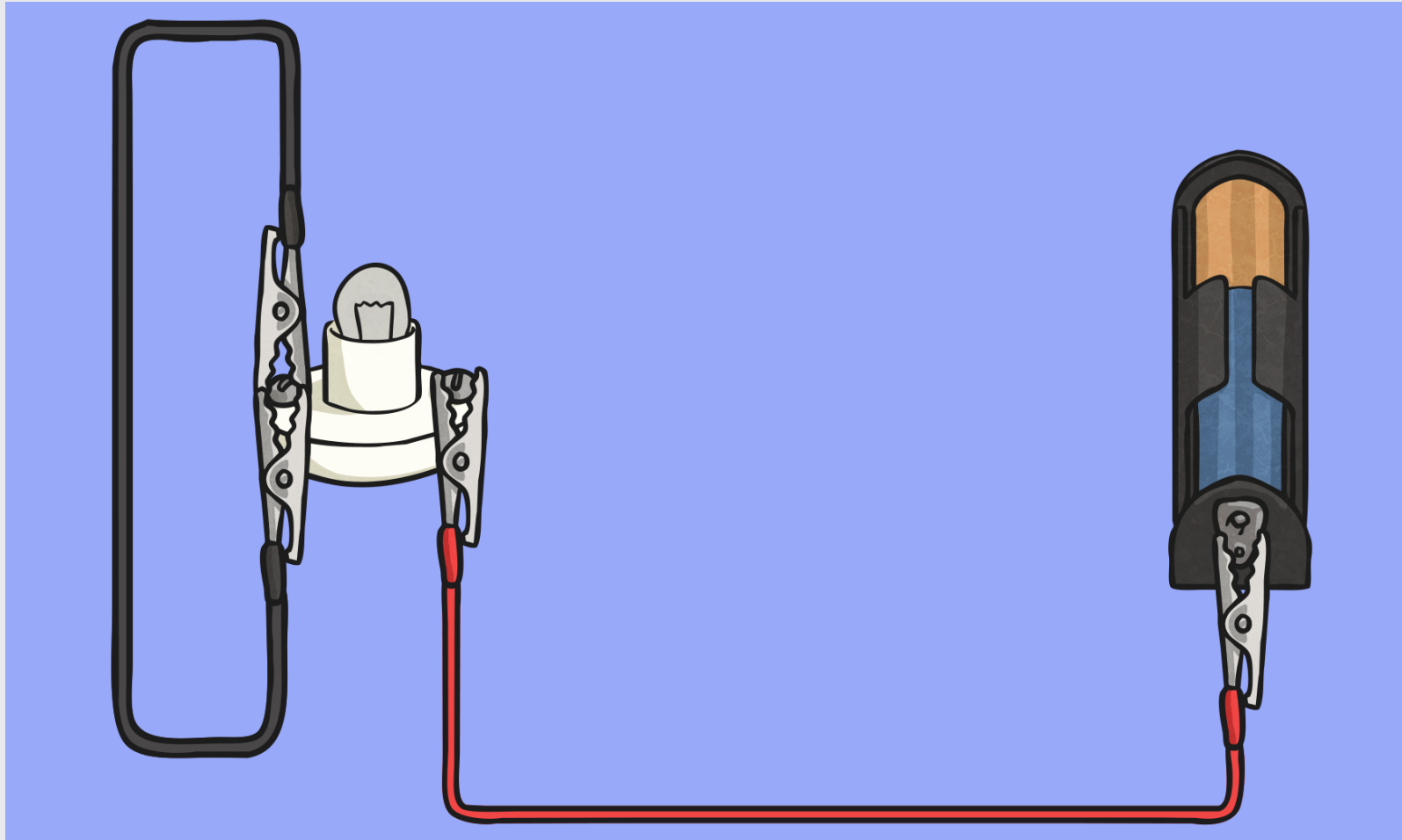
Complete or Incomplete?



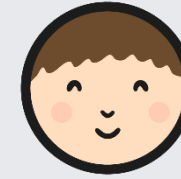
Complete or Incomplete?



Complete or Incomplete?



Complete or Incomplete Circuit?



Task Instructions:

1. On your activity sheets, you will see pictures of circuits.
2. Based on what you've learned today, you will need to predict if the circuit will be complete or incomplete.

Complete and Incomplete Circuits

Look at the following circuits and predict if they are complete (bulb will light) or incomplete (bulb will not light).

Circuit	Complete or Incomplete?

How many did you predict correctly? What is the difference between complete and incomplete circuits?

twinkl planit Science | Year 4 | Electricity | Electrical Circuits | Lesson 3