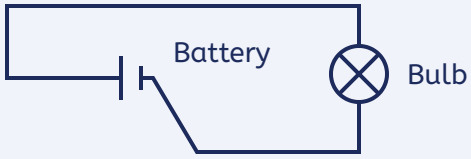
Science and technology · Grade 6

Open and closed circuits

Read or look closely

In a simple diagram, a battery powers a bulb through a loop of wires. Open the loop and the bulb goes out.



Answers

1. What supplies energy in the diagram?

The battery.

2. Is the path continuous in an open circuit?

No.

3. What does an opened switch do?

It breaks the path.

4. Draw a simple diagram of a battery and bulb in a closed circuit.

A continuous loop connecting both battery terminals and both bulb contacts.

5. Imagine a wire no longer touches the bulb. Explain why it will not light.

The loop has a gap.