

SCIENCE · GRADE 4

Simple Circuits

Will the bulb light?

How a circuit works

Electricity needs a complete LOOP from one end of the cell, through the bulb (or motor), back to the other end of the cell. If the loop is broken anywhere — a missing wire, a switch in the OFF position, a damaged bulb — no electricity flows and the bulb won't light.

Predict — will the bulb light?

1. Circuit A: Cell + bulb, complete loop. Will the bulb light?
2. Circuit B: Cell + bulb, but one wire is missing. Will the bulb light?
3. Circuit C: Two bulbs in a series with one cell. Will both light?
4. Circuit D: Cell + bulb + switch (OPEN). Will the bulb light?
5. Circuit E: Same as D but switch is now CLOSED. Will the bulb light?



Draw a circuit

Draw a circuit using one cell, two bulbs and one switch. Use the correct circuit symbols.

