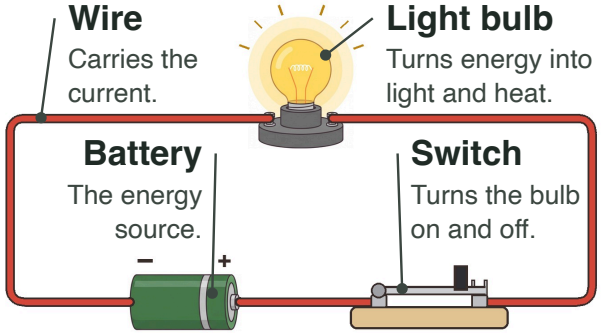
ELECTRIC CIRCUITS

PHYSICAL SCIENCE

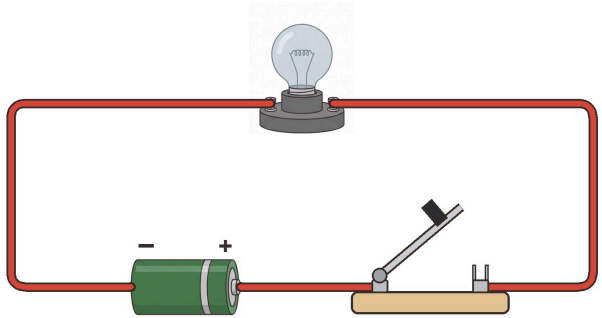
What each part does

A circuit is a complete loop. Close the switch and current flows from the battery through the bulb and back; open it and the bulb goes dark. Bulbs can share one loop (series) or each have their own branch (parallel).



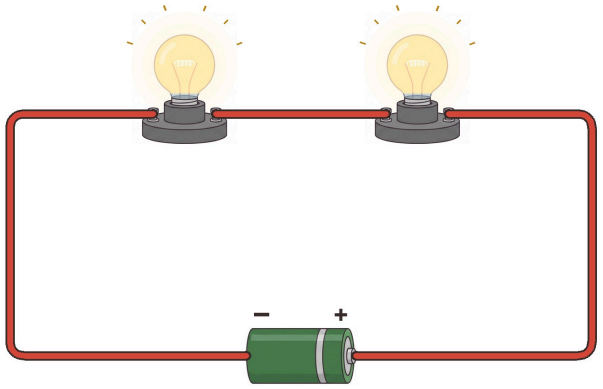
Closed circuit

A complete loop. Current flows; the bulb lights.



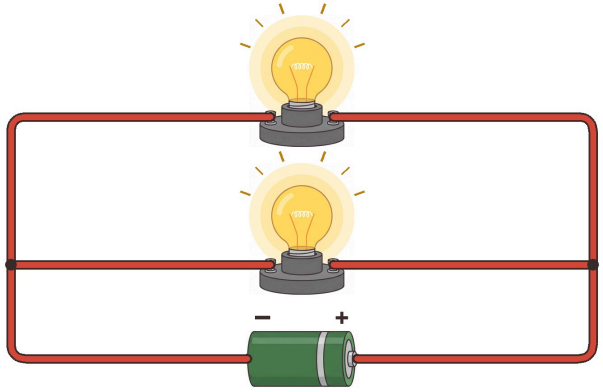
Open circuit

A gap in the loop. No current; the bulb is dark.



Series circuit

One path. Take out a bulb and all go dark.



Parallel circuit

Each bulb on its own branch. The rest stay lit.