

Build a circuit

Read about circuits. Then label a circuit, predict which bulbs light and sort materials.

Electricity flows only around a complete loop called a **closed circuit**. If there is a gap anywhere, it is an **open circuit** and the bulb stays dark. A **switch** opens and closes the gap.

① Label the parts of the circuit. Use the word bank.

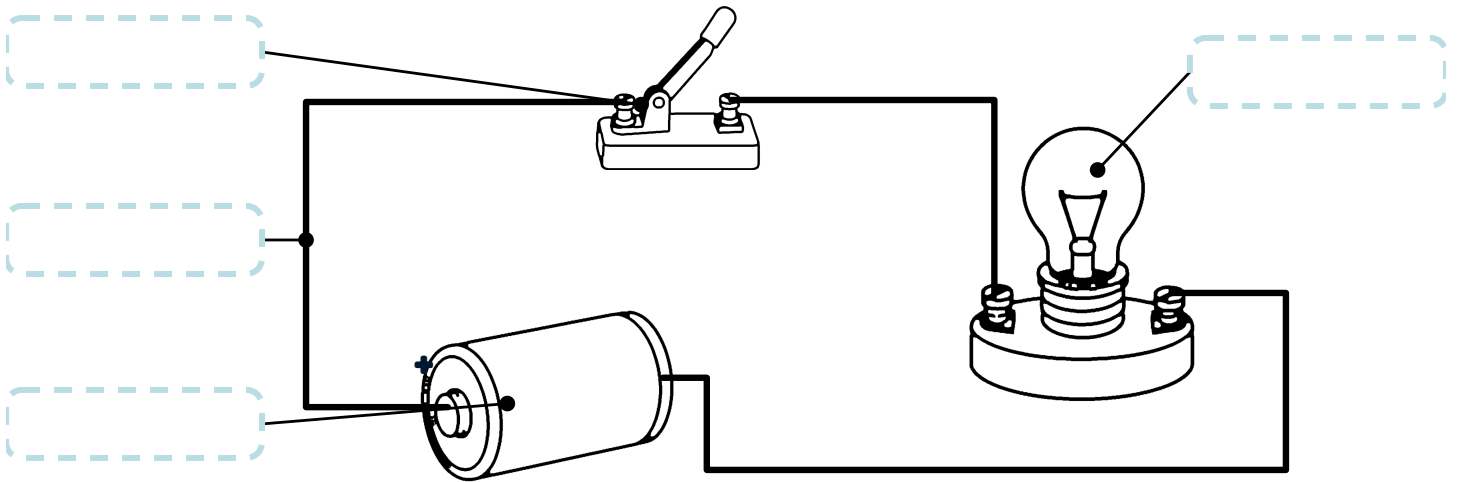
WORD BANK

battery

wire

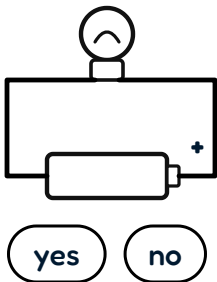
bulb

switch

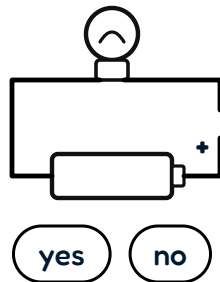


② Will the bulb light? Circle yes or no.

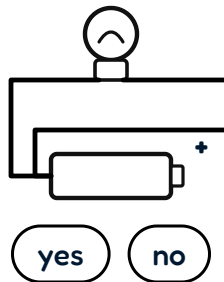
A



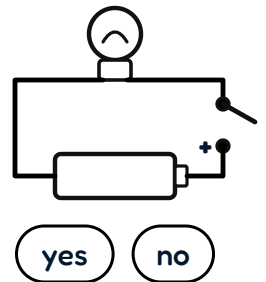
B



C



D



③ Conductor or insulator? Fill in the bubble.

A **conductor** lets electricity flow through it. An **insulator** does not.

- | | | | |
|---------------------|---|------------------|---|
| 1. copper wire | ☐ conductor ☐ insulator | 2. plastic straw | ☐ conductor ☐ insulator |
| 3. aluminum foil | ☐ conductor ☐ insulator | 4. rubber band | ☐ conductor ☐ insulator |
| 5. steel paper clip | ☐ conductor ☐ insulator | 6. wooden stick | ☐ conductor ☐ insulator |
| 7. glass marble | ☐ conductor ☐ insulator | 8. gold ring | ☐ conductor ☐ insulator |