

Max's Mighty Guide to Electricity

Power Up Your Knowledge: Join Max the Monkey as he connects the dots on how electricity makes our world shine!

- A complete circuit is a closed loop that allows electricity to flow from a power source, like a battery, to a component such as a bulb or a motor.
- Materials like metal are called conductors because they allow electricity to pass through them easily, while plastic and eraser are insulators that block the flow.
- A switch acts like a bridge; when it is closed, the circuit is complete and the device works, but when it is open, the flow of electricity is broken.
- Mains electricity comes from power stations and is much more powerful than the electricity stored inside small portable batteries.
- If a circuit has a break in it, or a component is faulty, the electricity cannot travel, and the lightbulb will not light up.

Did you know? Did you know? Electricity can travel through a wire at nearly the speed of light! That is why when you flick a switch, your lightbulb seems to glow instantly.

Key vocabulary: Circuit · Component · Conductor · Insulator · Switch · Voltage · Filament