

Max's Mighty Circuits: An Introduction to Electronics

Power Up Your Projects: Build, Connect, and Create!

- A power source, such as a battery or a cell, provides the energy needed to push electricity through the circuit.
- Conductive materials, typically metals like copper, are used to create the 'wires' that connect all components together.
- A switch acts as a bridge; when closed, it allows current to flow, and when open, it breaks the connection to stop the flow.
- Components like bulbs, buzzers, or motors convert the electrical energy into light, sound, or movement.
- Insulators, such as plastic or rubber, cover wires to keep us safe by preventing electricity from escaping the circuit.

Did you know? Did you know? Electricity flows through a circuit like water through a pipe. If there is a break in the path, such as an open switch or a snapped wire, the current stops flowing immediately, and the circuit becomes incomplete. This is why a closed circuit is essential for a bulb to light up!

Key vocabulary: Cell · Battery · Component · Conductor · Insulator · Switch · Current · Circuit