

Nova's Guide to the Power of Electricity

Plug into the power of discovery with Nova the Owl!

- A simple circuit is a complete loop that includes a power source, wires, and a component like a bulb.
- A switch is used to open or close a circuit; when the switch is off, the circuit is broken and electricity cannot flow.
- Conductors are materials like metals that allow electricity to flow through them easily.
- Insulators are materials like plastic, wood, or eraser that do not let electricity pass through them, keeping us safe from shocks.
- Mains electricity is a powerful source used for large household appliances like fridges and washing machines.
- Battery-powered devices are portable because they carry their own electrical energy source inside them.

Did you know? Did you know? Electricity moves through wires at the speed of light! It needs a complete, unbroken loop called a circuit to flow from the power source to an appliance, like a lamp or a toaster.

Key vocabulary: Circuit · Cell · Conductor · Insulator · Switch · Appliance · Filament