

Nova's Guide to the Electric World

Power Up Your Brain: Explore the Bright Sparks of Electricity!

- A complete circuit is a continuous loop that allows electricity to flow from a source to a component like a bulb or buzzer.
- Electrical insulators, such as plastic and wood, are used to cover wires to keep us safe because they stop electricity from passing through them.
- A switch is a vital component that acts like a bridge; when it is closed, the circuit is complete and the electricity flows freely.
- Many household appliances rely on mains electricity, which is a powerful source of energy provided by the national grid.
- Batteries provide a portable source of electricity, containing stored chemical energy that converts into electrical energy to power small devices.

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 lamp seems to glow instantly.

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