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What is Electricity

Electricity powers our world and makes things work!

DEFINITION

> Electricity is a form of energy that can flow through wires to power devices. It is created by the movement of tiny particles called electrons.

KEY CONCEPTS

Atoms and Electrons

Everything is made of atoms, which contain electrons that can move to create electricity.

Conductors and Insulators

Conductors allow electricity to flow easily, while insulators block it, like rubber or plastic.

Circuits

A circuit is a closed loop that allows electricity to travel from a power source to a device.

Static Electricity

Static electricity is the buildup of electric charge on the surface of objects, often felt as a shock.

Current and Voltage

Current is the flow of electricity, while voltage is the force that pushes it through a circuit.

EXAMPLES

→ Turning on a light bulb using a switch.

→ Charging a tablet or smartphone.

→ Using a battery to power a toy.

MEMORY TIPS

★ Remember 'C' for Circuits and 'C' for Closed loop.

★ Think of 'E' for Electrons as 'Energy' movers.

★ Use 'I' for Insulators as 'Impeders' of electricity.

COMMON MISTAKES

✗ Confusing conductors with insulators.

✗ Thinking all materials conduct electricity equally.

✗ Not recognizing that static electricity is different from current electricity.

QUICK RECAP

Electricity is energy from moving electrons that powers our devices. Remember the difference between conductors and insulators, and how circuits work to complete the flow of electricity.