Electricity - Science Knowledge Organiser

Electricity: a flow of energy and flow of electric charge (electrons).

Electric current: a flow of electric charge moving in one direction through a material.

Atom: every solid, liquid and gas are made up of atoms. An atom contains a nucleus with protons, electrons and neutrons.

Electron: a particle with negative electrical charge.

Appliance: a device, piece of equipment or an instrument designed to perform a task.

Alternating Current (AC): an electric current that reverses its direction many times which is usually used in power supplies.

Direct Current (DC): an electric current flowing in one direction only which is usually found in batteries.

Circuit: a complete electrical network of components allowing an electric current to flow through.

Component: a part or element of a large whole e.g. a circuit.

Cell: a single battery.

Battery: two or more batteries.

Switch: a component that breaks or completes a circuit on purpose to stop or allow the flow of electrons when it is turned on or off.

Conductor: a material that allows the flow of an electric current through it.

Insulator: a material that stops the flow of an electric current through it.

















