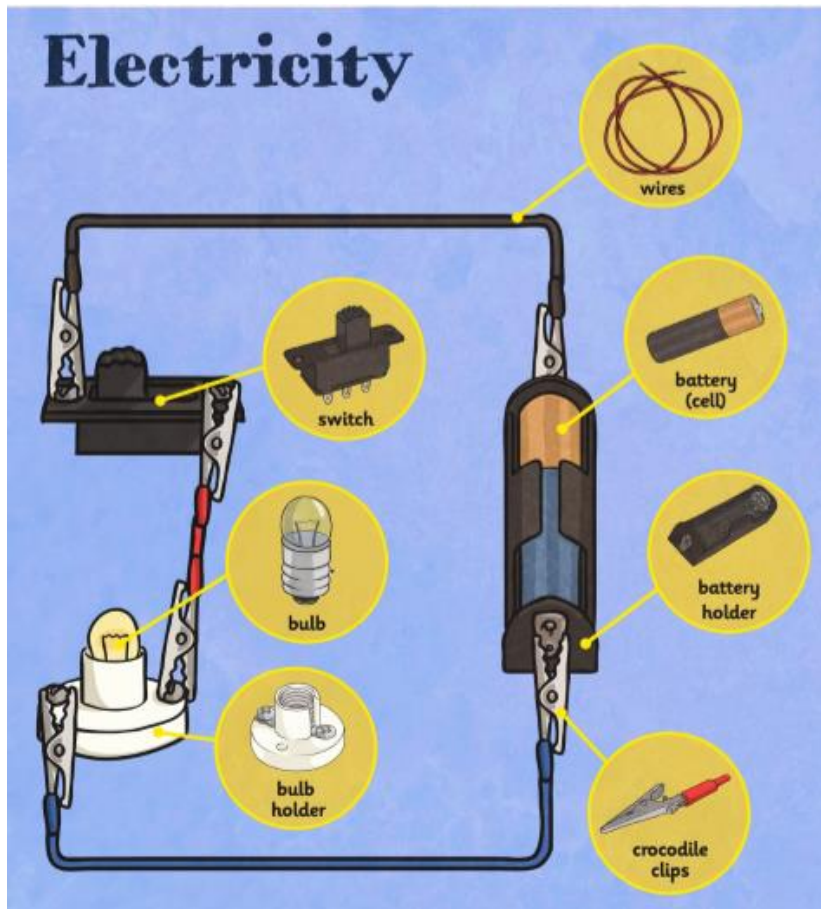


# Electricity

## Year 4



### Key Vocabulary

**Appliances:** A piece of equipment or device designed to perform a particular job.

**Battery:** A device that stores electrical energy as a chemical.

**Buzzer:** An electrical device that makes a buzzing sound.

**Circuit:** A pathway that electricity can flow around.

**Conductor:** A material that electricity can pass through.

**Current:** A flow of electricity through a wire.

**Electricity:** The flow of an electric current or charge through a material.

**Electrons:** Small particles with an electrical charge.

**Generate:** To make or produce.

**Insulator:** Any material that electricity cannot pass through.

**Motor:** A device that changes electrical energy into movement.

**Non-renewable:** This source of energy will eventually run out and so will no longer be able to be used to make electricity. These include fossil fuels - coal, oil and natural gas.

**Renewable:** A source of electricity that will not run out. These include solar, nuclear, geothermal, hydro and wind.

**Switches:** Can be open or closed. When a switch is off it 'breaks' the circuit to stop the flow of electrons.

**Wire:** A long thin piece of metal that carries an electrical current.

### Key Questions

What appliances run on electricity?

What items are powered by battery powered and which are powered by mains electricity?

What components are needed to make a circuit?

Can we make a complete circuit with wires, a battery and a bulb?

What happens if we change the order of the components in a circuit?

Can circuits that are not working be fixed?

How do switches work and how are they made?

What is an insulator and what is a conductor?