



## Endpoints for Science

### Year 4 – Electrical Circuits



We will be learning about electrical appliances and safety. We will make simple circuits and name the key parts and functions. We will also learn about insulators and conductors.

#### What I know and can explain

Electricity is a type of energy. It is used to power many everyday items

Electricity comes from two sources: mains and batteries

A circuit is a collection of components connected by wires through which an electric current can flow

A circuit must be a complete loop to work

Electrical conductivity is a measure of a material's ability to allow an electric current to pass through it

A switch makes or breaks a circuit

Working with electrical circuits can be dangerous

#### Useful Vocabulary

**Battery** - A number of cells connected together

**Circuit** - A collection of components connected by wires through which electricity can flow

**Component** - A device used in an electrical circuit

**Conductor** - A material through which an electric current can flow

**Electricity** - A form of energy that provides power and makes appliances work

**Insulator** - A material that does not allow an electric current to pass through