

Electricity Knowledge Mat Year 4

Sticky Knowledge- What do I need to know?

Week 1	Electricity can cause appliances to heat up, light up, move and make sound.
Week 2	A simple circuit is a circuit that contains the three basic components needed for an electric circuit to function.
Week 3	A simple circuit has basic parts, including cells, wires, bulbs, switches and buzzers.
Week 4	Metals allow electricity to flow through them. All metals are electrical conductors but some work better than others.
Week 5	An electrical insulator is a material in which electric current does not flow freely.
Week 6	If a switch is opened or closed a circuit this will affect whether an electrical component works or not.
Week 7	I can set up a simple circuit, record my findings using drawings and use results to make predictions.

Key Vocabulary- What words do I need to know and understand?

Appliances	fridge, freezer, TV, computer, iron, kettle, etc
Components:	battery, bulb (lamp), bulb (lamp) holder, buzzer, crocodile clip, leads, wires, switch
Circuit	An electrical circuit is a completed path through which an electrical current flows.
Cells	An electrical cell is a devices used to generate electricity.
Conductor	A conductor is an object or type of material that allows the flow of an electrical current in one or more directions.
Insulator	An insulator is a material that does not let electric charges flow through them.
Switch	A switch is an electrical component that can 'make' or 'break' an electrical circuit.