



Mossfield Primary School Knowledge Organiser

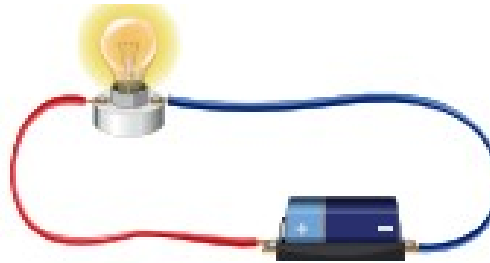


- Year 4 — **Electricity**—Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. Recognise some common conductors and insulators, and associate metals

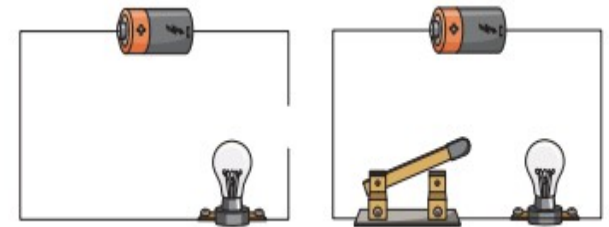
Common appliances that use electricity



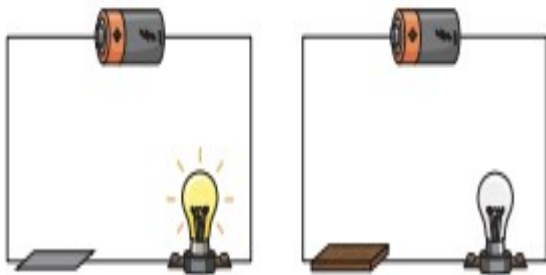
Build and draw series circuits



What has gone wrong?



Conductivity within a circuit



Conductors and insulators



What is energy and how can we reduce our energy usage



Key Vocabulary

Appliances	A device or machine in your home that you use to do a job such as cleaning or cooking. Appliances are often electrical.
Battery	Small devices that provide the power for electrical items such as torches.
Buzzer	An electrical device that is used to make a buzzing sound.
Cell	A synonym for battery.
Circuit	A complete route which an electric current can flow around.
Conductor	A substance that heat or electricity can pass through or along.
Current	A flow of electricity through a wire or circuit.
Electricity	A form of energy that can be carried by wires and is used for heating and lighting, and to provide power for devices.
Electrocuted	Electric shock occurs when the human body comes in contact with a source of electricity such that electric current trav-
Energy	The power from sources such as electricity that makes machines work or provides heat.
Insulator	A non-conductor of electricity or heat.
Plug	plug is a device used to connect an appliance to the mains electricity supply.
Socket	A socket is an opening or a hollow part that is designed to receive and hold another part, such as a plug.
Switch	A small control for an electrical device which you use to turn the device on or off.