

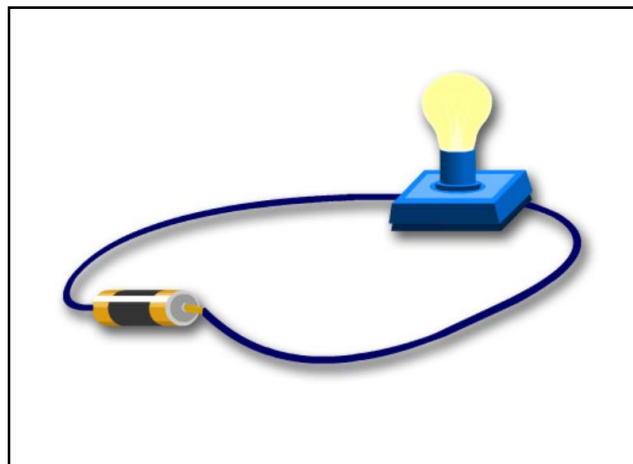
Science Knowledge Organiser

Term 3 Year 3/4 – Electricity

Key Enquiry Question: Can I make a simple series circuit with multiple components?

National Curriculum Objectives:

- 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 with being good conductors.



Key vocabulary

Word	Meaning
Circuit	The path followed by an electric current. Electricity must flow in a circuit to work.
Components	The items that make up a circuit.
Battery	A portable electricity supply.
Bulb	Part of a circuit that gives out light.
Cell	A scientific name for a single battery.
Wires	Used to connect components together.
Switch	A component that turns a circuit on or off.
Mains	The electricity that comes from a socket.
Conductor	A material that transmits electricity in the wall and through wires.
Insulator	A material through which electricity cannot flow.

Sticky Knowledge

Appliances use either a mains operated system, battery operated system or both.

A circuit has many components.

A switch is used to open and close the flow of electricity in a circuit.