

Summer 2 - What would life be like without electricity?

Key Vocabulary

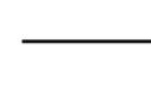
mains electricity	Electricity supplied through wires to a building.
electrical conductor	A conductor of electricity is a material that will allow electricity to flow through it.
electrical insulator	Materials that are electrical insulators do not allow electricity to flow through them.



lamp (indicator)



lamp (lighting)



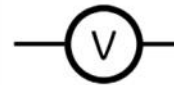
wire



ammeter



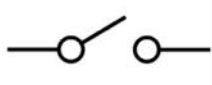
motor



voltmeter



buzzer



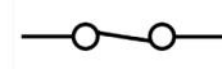
open switch



cell



battery



closed switch

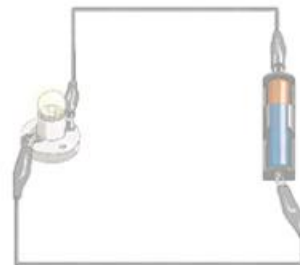
Series Circuit

A **circuit** where the components are connected in a loop.

Electricity flows through each component in a single pathway.



Complete Circuit



Electricity can flow. The components will work.

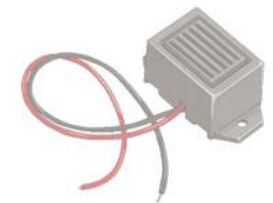
cell: Normally, we would call this a **battery** but scientifically, this is a cell. Two or more cells joined together form a **battery**.



bulb: Lights up in a complete **circuit**.



buzzer: Makes a noise in a complete **circuit**.



wires: Used to connect the different components in the **circuit** together.



motor: Produces movement in a complete **circuit**.



switch: Used to turn other components in the **circuit** on or off.



Summer 2 - Curriculum coverage

Computing

- To develop the use of count controlled loops and different programming environment.
- To explain that in programming there are infinite loops and count controlled loops.
- To develop a design that includes two or more loops that run at the same time.
- To modify infinite loops in a given programme.
- To design a project the includes repetition.

Geography

- To locate the UK and its key regions (counties)
- To explore landscapes using a range of maps.
- To understand features of an ordinance survey map.
- To explore maps using 6-figure grid references.
- To explore landscapes within the UK.
- To compare urban and rural land use.

Science

- To know common appliances that run on electricity.
- To know how to construct a simple series circuit.
- To know the parts of a simple series circuit.

DT

- To research existing designs.
- To know how to cut and join wood.
- To know how to reinforce a structure for stability.
- To know how to make a wheel and axel system.
- To know how to use an electrical system to make a car move.

RE

- To identify rites of passage in Islam.
- To know the rites of passage related to death across religions.
- To consider personal beliefs about why religion is important.
- To consider religions of families in our community.

Maths

- To identify different types of angles and compare these.
- To identify properties of different shapes and their angles within these.
- To explore lines of symmetry.
- To interpret and draw line graphs.
- To use and plot coordinates.

English

Persuasion

Inviting an Author

Biography

Nikola Tesla

Narrative – Story of Love and Hope