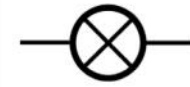


# Summer 2 - What would life be like without electricity?

## Key Vocabulary

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



lamp (indicator)



lamp (lighting)



wire



ammeter



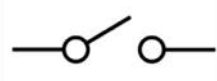
motor



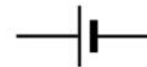
voltmeter



buzzer



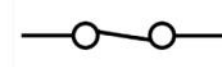
open switch



cell



battery



closed switch

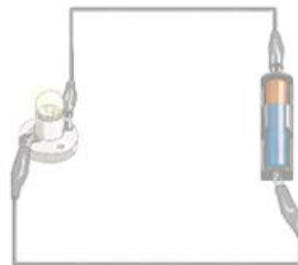
## Series Circuit

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.

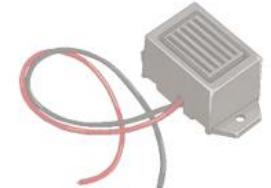
**cell:** Normally, we would call this a **battery** but scientifically, this is a cell. Two or more cells joined together form a **battery**.



**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

- We are going to write a persuasive advertisement for a product.
- We are going to write a biography a famous individual
- We are going to write a narrative based around The Boy, The Horse, The Fox and The Mole