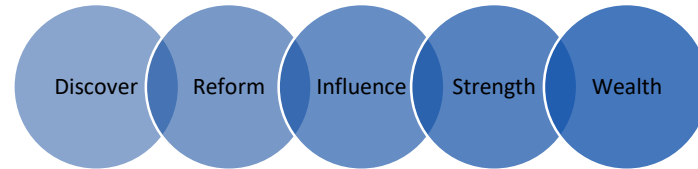
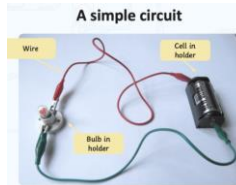


### Prior Knowledge

- Explore how things work

### Key Knowledge

- Identify common household appliances that run on electricity – saying which plug into the mains and which run on batteries
- Identify and name items required to make an electrical circuit e.g. battery/cell, wires, buzzer, motor, bulb etc.
- A **circuit** has a battery or cell connected to a component (bulb/motor/buzzer) using wires
- Know what happens to the component when the circuit is broken
- A switch can be added to a circuit to turn the component (buzzer/bulb/motor) on or off
- Some materials allow electricity to pass through them easily – they are known as electrical conductors
- Many metals are electrical conductors
- Water also conducts electricity
- Some materials do not allow electricity to pass through them – they are known as insulators



### Key Vocabulary

|                             |  |               |               |
|-----------------------------|--|---------------|---------------|
| <b>electricity</b>          | A form of energy used for lighting, heating, making sound and making machines work                                 |               |               |
| <b>electrical appliance</b> | A machine or device that runs on electricity   |               |               |
| <b>mains</b>                | The electricity supplied to households from power stations   |               |               |
| <b>electrical circuit</b>   | This consists of a battery / cell connected to a component using wires. It needs to be a complete circuit to work. |               |               |
| <b>cell / battery</b>       | A source of electrical energy  |               |               |
| <b>electrical component</b> | A part that combines with others to form a circuit e.g. bulb, buzzer, motor...                                     |               |               |
| <b>bulb</b>                 | <b>motor</b>   | <b>buzzer</b> | <b>switch</b> |
| <b>conductor</b>            | Material that allows electricity to pass through   |               |               |
| <b>insulator</b>            | Material that does not allow electricity to pass through it  |               |               |

*Why is electricity do important to modern day living?*