

| | What (key k | knowledge) | | |
|---|---|---|-------|--|
| <u>Electricity</u> | | | | |
| What is Electricity? What are c | can be powered solar. • The electrical other types of e movement or s • Electricity is d using electrical | Electricity is created by generators which can be powered by gas, coal, oil, wind or solar. The electrical energy can be converted into other types of energy such as light, heat, movement or sound. Electricity is dangerous, so be careful when using electrical appliances. mon appliances that run on electricity? (main / battery) | | |
| | | | | |
| Any appliances that need to be plugged in run on electricity. | | | | |
| <u>Mains</u> Most of the large appliances in our home are powered by | | Battery powered electricity. Batteries are a great way to provide electricity when mains | | |
| mains electricity. \Rightarrow Television \Rightarrow Computer \Rightarrow Microwave \Rightarrow Lights | | power is not available, like when you are camping or there is a blackout. | Batte | |
| | | \Rightarrow Torch \Rightarrow Clocks \Rightarrow Remote controls. | (M | |
| Electrical circuits | | | | |
| Things | • Electricity can flow | w through the components in a | | |
| you need | • | mplete electrical circuit. | | |
| to know | | A circuit always needs a power source, such as a | | |
| about circuits | | attery, with wires connected to both the positive) and negative (-) ends. (A battery is made from | | |
| circuits | a collection of cells connected together). | | | |
| | A circuit can also contain other electrical | | | |
| | components, such as bulbs, buzzers or motors, | | | |
| | which allow electricity to pass through. | | | |
| | , | y travel around a circuit that is | | |
| | complete. That mea | ans it has no gaps. | | |

| What? (Key vocabulary) | | | |
|------------------------|--|--|--|
| Circuit | A path through which an electrical current flows. | | |
| Component | A part of something (a part of a circuit). | | |
| Conductors | Some materials let electricity pass through them easily. They are known as electrical conductors. Many metals, such as iron, copper and steel, are good electrical conductors. | | |
| Connected | Something that is joined or linked. | | |
| Current | The flow of electrical charge. | | |
| Generator | A machine that make electrical energy. | | |
| Insulators | Some materials do not allow electricity to pass through them. They are known as electrical insulators (Wood, glass, plastic and rubber are good electrical insulators). | | |
| $-\otimes \Upsilon$ | | | |
| Wire Bulb | Buzzer | | |
| -0'00-0- | | | |
| Switch (off) Switch | th (on) Would the bulb light up? | | |

