Leamington Primary Science Knowledge Organiser Year 4 – Electricity –

Investigating circuits Strand – physics

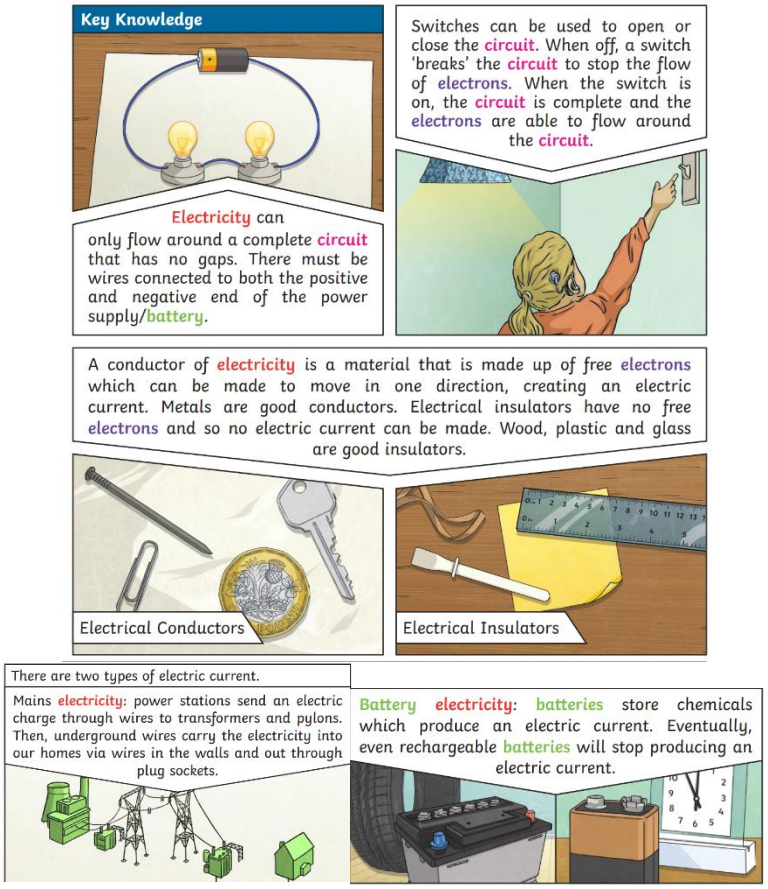
What I should already know

- That electricity is a source of power
- That electrical appliance need power to be functional
- That electricity is used in many everyday obejcts

Interesting Facts

- Electricity travels at the speed of light
- Lightning is the discharge of electricity in the atmosphere
- Electricity was discovered in 600BC
- The first electric car was developed in 1932

What I will learn



Important words to help me. (vocabulary)

Electricity	The flow of an electric current or charge through a material e.g. from a power sources through wires to an appliance.
Generate	To make or produce
Renewable	A source of energy that does not run out. These include solar, hydro, nuclear, wind and geothermal.
Non-renewable	A source of energy that will eventually run out and so will no longer be able to be used to make electricity. These include fossil fuels – oil, coal and natural gas.
Appliance	A piece of equipment or device designed to perform a particular job, such as a washing machine or mobile phone.
Battery	A device that stores electrical energy as a chemical.
Cell	The scientific name for a battery.
Switch	Switches can be used to open or close a circuit.
Circuit	A pathway that electricity can flow around. It includes wires, a battery and may include bulbs, buzzers or switches.
Wire	Metal cable through which electricity can flow.
Insulator	An insulator of electricity has no free electrons and so no electrical current can be made.
Conductor	A conductor of electricity is a material that is made up of free electrons, which can be made to move in one direction, creating an electrical current.

Ideas for Scientific Enquiry

- Investigate which objects around your home conduct electricity.
- Did you know playdough is an electrical conductor? Test it and see!

- Check out this website for more fun experiments https://frugalfun4boys.com/easy-static-electricity-science-experiments/