



# KNOWLEDGE ORGANISER: Science- Electricity Year 4 Block 3

## Key Vocabulary

<b>Appliance</b>	An item which performs a function
<b>Circuit</b>	A route forming a complete path for an electrical current
<b>Conductor</b>	A material which allows energy to pass through it
<b>Insulator</b>	A material which does not allow energy to pass through it
<b>Plug</b>	Device to make an electrical connection
<b>Socket</b>	Device in which a plug is fitted
<b>Cell</b>	Portable store of energy, e.g. a battery
<b>Switch</b>	A device that opens and closes a circuit

## Key Knowledge

- Learn about household appliances that use electricity. – Understand how a circuit functions and common components within it, e.g. switches, wires, LEDs etc. – Learn about generators, i.e. the different ways electricity can be generated. - Learn about electrical safety and the risks of electricity. – Use theoretical knowledge to build a circuit and basic electrical devices.



Learning Intention: To understand how electricity is generated, its purposes within the modern world and safety relevant to this topic.

- To learn about appliances that use electricity within the home and to understand how these items function.
- To understand how to build a circuit and learn about conductors and insulators, employing this knowledge to practical application.

## Resources

Websites



- ✓ [Electricity - BBC Bitesize](#)
- ✓ Tim Peake (2017) *Ask an Astronaut*, Century
- ✓ [Switched on Kids - from Electrical Safety First](#)

Textbooks

Reading Links

