Knowledge organiser Y6 Electrical systems

Doodler My Key Learning

What do I already know?

When we build a simple series circuit we need to include a variety of components including:

- a battery,
- battery holder,
- wires
- bulb or buzzer

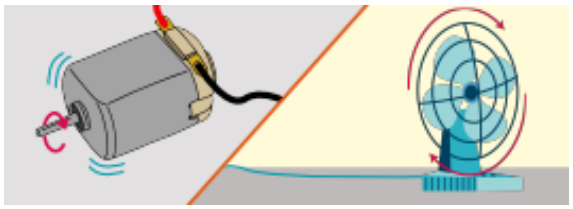
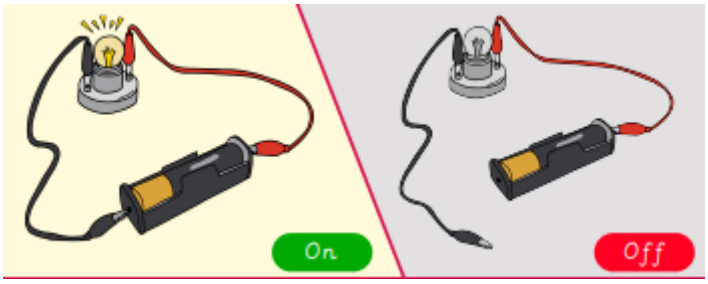
When making a switch for a circuit we must use objects or materials that conduct electricity.

Key Vocabulary	Definition
Design criteria	A set of rules to help designers focus their ideas and test the success of them.
Product analysis	To look at an object and evaluate it based on certain criteria.
Target user	A particular person at whom the product is aimed.
Stable	An object does not easily topple over.
Configuration	How different parts are put together to form an object.
Circuit	A collection of components that makes an electrical system.
Circuit component	One of several parts that complete a circuit.
Current	The flow of electricity.

When designing a product we must look at existing products and use them to identify features and explain how these would alter the form and function of the product.

Developing a design criteria should also include the target user for the product. This can then be used to evaluate a finished product alongside finding its strengths and weaknesses.

An electric motor converts electrical energy inot rotational movement, causing the motor's axle to spin. Motors use electricity instead of human force to move the axle.



Series circuits only have one path for the electrical current to flow. If there is a break in a series circuit, the electrical current will be cut and all the components will stop working. Causing a break in a series circuit can act as a switch to turn the circuit off.