

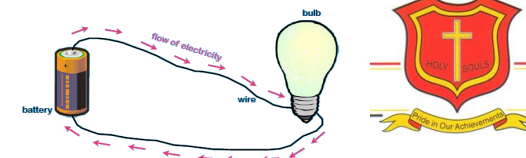
The key Science knowledge that I will know by the end of this unit will be:

- I will investigate circuits and their different components.
- I will investigate the difference between mains and battery-powered electricity.
- I will be able to recognise some common conductors and insulators, and associate metals with being good conductors.
- I will investigate the purposes of conducting and insulating materials.
- I will use my knowledge of circuits and conductors to create switches to create a circuit.
- I will be able to plan and carry out an experiment to see how to change the brightness of a bulb.

I will show that I can work like a Scientist by:

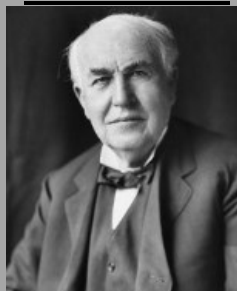
- To set up simple practical enquiries, comparative and fair tests.
- To record findings using simple scientific language, drawings and labelled diagrams.
- To report on findings from enquiries, including oral and written explanations.
- To ask relevant questions and use different types of scientific enquiries to answer them.
- To use results to draw simple conclusions, make predictions, suggest improvements and raise further questions.

Science - **Circuits and Conductors**



What have I learnt before and when:		What I will learn:
Year 2 Materials	Year 3 Forces and Magnets	Year 4 Circuits and Conductors

**Famous Person link—
Thomas Edison
1847-1931**



How are circuits used in every day life and how do they help us?

Vocabulary	Definition
Battery / Cell	A device that stores electrical energy as a chemical.
Complete circuit	A complete path around which an electric current can flow.
Component	A part or element of a whole.
Conductor	A material or device that allows electricity to pass through it.
Electricity	The flow of an electric current through a material, e.g. from a power source through wires to an appliance.
Electrical circuit	A circuit is a complete path around which electricity can flow. It must include a source of electricity, such as a battery.
Insulator	A material or device that does not allow electricity to pass through it.