Power it up! Year 4 | Summer 2

What I already know:

1	I know electricity can be dangerous.
2	I have explore a range of battery powered devices.
3	I understand that a switch will turn something on or off.

Working Scientifically Skills:

Ask relevant questions and using different types of scientific enquiries to answer them – setting up simple practical enquiries, comparative and fair tests.

Gather, record, classify and present data in a variety of ways to help in answering questions.

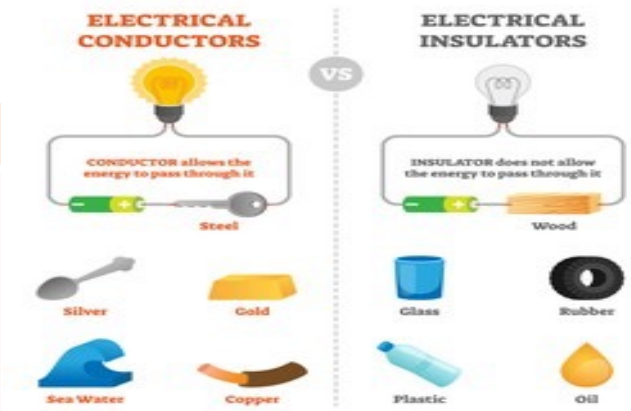
Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.

Scientist/Inventor:

Thomas Edison 1847-1931	His inventions made it possible for people to enjoy the benefits of electricity.

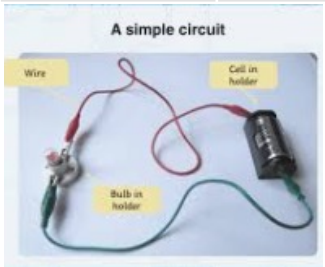
What I will learn:

1	To identify common appliances that run on electricity.
2	To construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.
3	To identify whether or not a lamp will light in a simple series circuit
4	To recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit .
5	To recognise some common conductors and insulators, and associate metals with being good conductors
6	Safety when using electricity.



Key Vocabulary

electricity	The flow of an electric current through a material, e.g. from a power source through wires to an appliance.
electric current	A flow of electricity through a wire or circuit.
mains	The electricity supplied to households from power stations.
appliance	A piece of equipment or a device designed to perform a particular job, such as a washing machine or mobile phone.
cell & battery	A cell is a single unit and a battery is a collection of cells.
component	The parts that something is made of.
circuit	A pathway that electricity can flow around.
insulator	Material that does not allow electricity to pass through it.
conductor	Material that allows electricity to pass through.



Warning

Electricity can be dangerous if not used properly. It can cause shocks, burns and even death. There are electrical dangers both in the home and outdoors.