Topic Plan

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	Year 4	
A	utumn 2 – A lightbulb momei	nt!
Key Skills	Key Facts	Key Vocabulary
 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 Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. Describe how people have been affected by changes in the environment. 	 In about 600 BC, the Ancient Greeks discovered that rubbing fur on amber (fossilized tree resin) caused an attraction between the two In 1752, Ben Franklin conducted his experiment with a kite, a key, and a storm. This simply proved that lightning and tiny electric sparks were the same thing. Edison and British scientist Joseph Swan who each invented the incandescent filament light bulb in their respective countries in about 1878. Renewable energy sources, like wind and solar power, generated over a third of the UK's electricity in 2019. 	 Electricity – the flow of an electric current or charge through a material, e.g. from a power source through wires to an appliance. Appliances – a piece of equipment or device designed to perform a particular job, such as washing machine or mobile phone. Generate – to make or produce. Renewable – a source of electricity that will not run out. Non-renewable – this source of energy will eventually run out and so will no longer be able to make electricity. Battery – a device that stores electrical energy as a chemical. Circuit – a pathway that electricity can flow around. It includes wires, a power supply and may include bulbs, switches or buzzers.
Key Figures/Places	Reading and Writing Links	
 Benjamin Franklin – drew similarities between lightning and electric sparks. Thomas Edison – perfected the first long 	Writing: - Newspapers - Letters Grammar – alliteration, expanded is similes, time connectives and adverse.	DIO ANY FUTURE

- Thomas Edison –
 perfected the first long
 lasting, effective
 filament light bulb.
- Lincs Wind Farm a local wind farm located 8 km away from Skegness

Reading – Class text for guided reading. – 'Boot, small robot, big adventure' by Shane Hegarty.

We are developing the children's ability to infer and extract information from a text within school.

To support this, it is vital that the children are reading at least 5 times per week at home for 30 minutes. They should record this in their reading record and ask an adult from home to initial it.