

Topic Plan

Year 4 Spring 1 – Rise of the Robots!		
Key Skills	Key Facts	Key Vocabulary
<ul style="list-style-type: none"> Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches, and buzzers. Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. Recognise some common conductors and insulators, and associate metals with being good conductors. 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Benjamin Franklin – drew similarities between lightning and electric sparks. Thomas Edison – perfected the first long lasting, effective filament light bulb. Lincs Wind Farm – a local wind farm located 8 km away from Skegness 	<p>Writing:</p> <ul style="list-style-type: none"> - Instruction writing - Narrative writing <p>Grammar – fronted adverbials, expanded noun phrases, standard English, formal and informal language.</p> <p>Reading – Class text for English. – ‘The Wild Robot’ by Peter Brown</p> <p>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 on Boom Reader.</p>	

