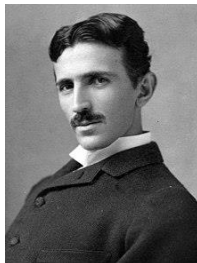


Year 6 – Electricity

Key Concepts	Learning possibilities	Scientific Enquiry	Prior Learning
Associate the brightness of a lamp or the volume of a buzzer and the voltage of batteries (cells) used in the circuit. Compare and give reasons for variations in how components function (inc. the brightness of a bulb, loudness of buzzers and position of on/off switches). Use recognised symbols when representing a simple circuit diagram knowing the names of all components. Identify what causes a short circuit or a circuit to fuse.	• Explain how a circuit operates to achieve particular operations, such as to control the light from a torch with different brightnesses or make a motor go faster or slower. • Make circuits to solve particular problems, such as a quiet and a loud burglar alarm. • Carry out fair tests exploring changes in circuits. • Make circuits that can be controlled as part of a DT project		Identify common appliances that run on electricity. (Y4 - Electricity) • Construct a simple series electrical circuit, identifying & naming basic parts.(Y4 - Electricity) • 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. (Y4 - Electricity) • Recognise that a switch opens & closes a circuit, associate this with whether or not a lamp lights in a simple series circuit. (Y4 - Electricity) • Recognise some common conductors and insulators, and associate metals with being good conductors. (Y4 - Electricity)
Cultural Capital			
Key Vocabulary Circuit, complete circuit, circuit diagram, circuit symbol, cell or battery, bulb, buzzer, motor, switch, volts, voltage		 Nikola Tesla 1856 - 1943 Tesla was an American inventor, electrical engineer, mechanical engineer, and futurist best known for his contributions to the design of the modern alternating current (AC) electricity supply system. • - open the website: bp.com/bpes • - click on 'Enter a student code' (top right on all pages if you are not logged in) - enter the code : 29432	