



St. Francis Xavier's RC Primary School

Science Unit Guidance and Formative Assessment

Year Group:	4 Spring 2	Subject:	Science
Unit:	Electricity	Prerequisite Learning and Curriculum Links	<p>EYFS ELG The Natural World Explore the natural world around them, making observations; know some similarities and differences between the natural world around them and contrasting environments; understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</p> <p>Technology: Operating simple mechanisms and equipment</p> <p>Curriculum links in Year 4 Design Technology- Create a car with an electrical circuit</p>

ROCKS (Remembering Our Curriculum Knowledge and Skills)	
Construct a simple circuit, naming components such as cells, wires, bulbs, switches and buzzers	
Identify if a circuit is complete or incomplete	
Use a switch to open and close a simple circuit	
Classify and recognise electrical conductors and insulators and know that metals are good conductors.	
Know that and identify that common appliances run on electricity	
Progressive Journey:	Skills:
Identify and recognise appliances which run on electricity (mains or battery) Design a poster promoting safe use of electricity and associated hazards Build simple circuits and debug issues Draw circuit diagrams for complete and incomplete circuits Add a switch to a simple circuit to investigate the function Test the conductivity of materials such as foil, paper and plastic Create Morse code messages	Constructing circuits Investigate circuit components such as bulbs and wires Ask questions and find out the answers using scientific research Use pictorial representations to display findings Observing patterns, such as bulbs get brighter is another cell is added Compare and classify materials based on conductivity
Key Vocabulary	
Appliance, mains, battery, cell, bulb, wire, switch, open, closed, simple circuit, conductor, insulator, hazards, safety, shock, current, voltage	