



Buglawton Primary School

Be the Best We Can





Topic: Electrical systems

Subject: DT

Year: 4

Term: Summer

What should I already know?	What should I be able to do by the end of the unit?
<ul style="list-style-type: none"> With growing confidence generate ideas for an item, considering its purpose and the user/s. Start to order the main stages of making a product. Identify a purpose and establish criteria for a successful product. Know to make drawings with labels when designing 	<ul style="list-style-type: none"> Start to generate ideas, considering the purposes for which they are designing- link with Mathematics and Science. Confidently make labelled drawings from different views showing specific features. Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail. Identify the strengths and areas for development in their ideas and products. Learn about inventors, designers and manufacturers who have developed ground-breaking products. <ul style="list-style-type: none"> When planning explain their choice of materials and components according to function and aesthetic. Select a wider range of tools and techniques for making their product safely. Know how to measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques. <ul style="list-style-type: none"> Demonstrate how to make a series circuit with a required outcome. Understand how to reinforce and strengthen a 3D framework.
What will I know by the end of the unit?	
<ul style="list-style-type: none"> Understand and use electrical systems in their products linked to science coverage. Understand how more complex electrical circuits and components can be used to create functional products. Apply their understanding of computing to program and control their products. Know and use technical vocabulary relevant to the project. 	

Key Vocabulary	
Series circuit	Battery
	
a circuit made in a single loop, where the electricity passes by one part of the circuit at a time.	a source of electrical power
Connection	Conductor
	
where something is connected	allows electricity to pass through it
Insulator	buzzer
	
does not allow electricity to pass through it	Makes a noise when electricity passes through it

Agreed Real-Life Outcome: Create a steady hand game