

**Bullion Lane Primary School
Medium Term Plan for Design Technology**

Year: 4/5

Cycle: Stand alone

Term: SPRING 2

Topic: CONTROLLABLE VEHICLES

Knowledge	Skills	Vocabulary
<ul style="list-style-type: none"> • Understand and use electrical systems in their products linked to science coverage. • Apply their understanding of computing to program and control their products. • Know and use technical vocabulary relevant to the project. 	<p align="center">Drawing, planning and communicating ideas</p> <p>Year 4</p> <ul style="list-style-type: none"> *Generate ideas, considering the purpose for which they are designing. *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. *evaluate products and identify criteria that can be used for their own designs. <p>Year 5</p> <ul style="list-style-type: none"> *Generate ideas through brainstorming and identify a purpose for their product. *Draw up a specification for their design. *Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making it if the first attempts fail. *Use results of investigations, information sources, including ICT when developing design ideas. <p>Working with tools, equipment, materials and components to make quality products (including food)</p> <p>Year 4</p> <ul style="list-style-type: none"> *Select appropriate tools and techniques for making their product. *Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques. *Join and combine materials and components accurately in temporary and permanent ways. *Sew using a range of different stitches, weave and knit. *Measure, tape, pin, cut and join fabric with some accuracy. 	<p>series circuit, fault, connection, toggle switch, push-to-make switch, push-to-break switch, battery, battery holder, bulb, bulb holder, wire, insulator, conductor, crocodile clip, control, program, system, input device, output device</p> <p>Design Evaluate Modify Create Axel Wheels Chassis</p>

	<p>*Use simple graphical communication techniques.</p> <p>Year 5</p> <p>*Select appropriate materials, tools and techniques.</p> <p>*Measure and mark out accurately.</p> <p>*Use skills in using different tools and equipment safely and accurately.</p> <p>*Weigh and measure accurately (time, dry ingredients, liquids).</p> <p>*Apply the rules for basic food hygiene and other safe practices, e.g. hazards relating to the use of ovens.</p> <p>*Cut and join with accuracy to ensure a good quality finish to the product.</p> <p>Evaluating processes and products</p> <p>Year 4</p> <p>*Evaluate their work both during and at the end of the assignment.</p> <p>*Evaluate their products, carrying out appropriate tests.</p> <p>Year 5</p> <p>*Evaluate a product against the original design specification.</p> <p>*Evaluate it personally and seek evaluation from others.</p>	
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