

Design Technology - Medium term plan			
Year group : Year 4	Topic : Torches		Focus : switches
<p>Design</p> <ul style="list-style-type: none"> use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design <p>Make</p> <ul style="list-style-type: none"> select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities <p>Evaluate</p> <ul style="list-style-type: none"> investigate and analyse a range of existing products evaluate their ideas and products against their own design criteria and consider the views of others to improve their work understand how key events and individuals in design and technology have helped shape the world <p>Technical Knowledge</p> <ul style="list-style-type: none"> apply their understanding of how to strengthen, stiffen and reinforce more complex structures 			
<p>Prior learning experiences from Y3</p> <ul style="list-style-type: none"> Design – create a design using design criteria Make – make a model that moves its mouth using pneumatics Evaluate – Explain what they like and dislike, show how to improve their monster Evaluate – identify key features of a moving model Technical knowledge – create a mechanism using syringes and piping (pneumatics) 		<p>Endpoints for Y4</p> <ul style="list-style-type: none"> Design – create a design using design criteria Make – make torch that is fit for purpose Evaluate – use the design criteria to evaluate the product, identify areas for improvement and how to improve, both aesthetically and technically Evaluate – identify key features of a torch Technical knowledge – how a switch works in an electrical circuit 	
<p>Sticky Vocabulary Design, design criteria, evaluate, product, circuit, switch,</p>			
Design	Make	Evaluate	Technical knowledge

<p>Can start to generate ideas, considering the purposes for which they are designing</p> <p>Can confidently make labelled drawings from different views showing specific features.</p> <p>Can understand how well products have been designed, made, what materials have been used and the construction technique.</p>	<p>Can select a wider range of tools such as scissors, paper clips, glue and techniques</p> <p>Can measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques.</p>	<p>Can start to evaluate their work both during and at the end of the process. Be able to evaluate familiar products and consider the views of others to improve them.</p>	<p>Can understand and use electrical systems in their products.</p> <p>Safety of using equipment and safe use of electricity.</p>
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