

Design Technology - Medium term plan			
Year group : Year 6	Topic : Phone cases	Focus : Textiles	
<p><b>Design</b></p> <ul style="list-style-type: none"> <li>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</li> <li>generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> </ul> <p><b>Make</b></p> <ul style="list-style-type: none"> <li>select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>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</li> </ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"> <li>investigate and analyse a range of existing products</li> <li>evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>understand how key events and individuals in design and technology have helped shape the world</li> </ul> <p><b>Technical Knowledge</b></p> <ul style="list-style-type: none"> <li>apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> <li>understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</li> <li>apply their understanding of computing to program, monitor and control their products.</li> </ul>			
<p>Prior learning experiences From y5</p> <ul style="list-style-type: none"> <li><b>Design</b> – create a design using design criteria</li> <li><b>Make</b> – make a bridge bearing in mind what has been learnt, make prototype of a bridge</li> <li><b>Evaluate</b> – use the design criteria to evaluate the product, identify areas for improvement and how to improve, peer asses yours and others work</li> <li><b>Evaluate</b> – identify key features a range of bridges</li> </ul> <p><b>Technical knowledge</b> – make structures suitable for the product, use ICT to aid design</p>		<p>Endpoints for y6</p> <ul style="list-style-type: none"> <li><b>Design</b> – create a design using design criteria</li> <li><b>Make</b> – phone case fit for purpose with a decorative cover</li> <li><b>Evaluate</b> – use the design criteria to evaluate the product, identify areas for improvement and how to improve, peer asses yours and others work</li> <li><b>Evaluate</b> – identify key features a protective phone cover</li> <li><b>Technical knowledge</b> – where fabric comes from, measure and cut fabric, join fabric, different stitches for purpose, different fabrics for different purposes.</li> </ul>	
<p>Sticky vocabulary Design, design criteria, evaluate, fabric, stitch, seam allowance, functionality, template,</p>			
Design	Make	Evaluate	Technical knowledge

<p>Can generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes or pattern pieces.</p> <p>Can use research (including ICT) to develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose.</p>	<p>Can confidently select and use appropriate materials e.g. paper, card, straws, wood, wires, batteries, buzzers and tools e.g. scissors, rulers to measure accurately, according to their functional properties and aesthetic qualities.</p> <p>Can select use a wider range of techniques, e.g. cutting, shaping, joining and finishing.</p>	<p>Can evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests.</p> <p>Can suggest ways that their product could be improved and consider the views of others to improve their work.</p> <p>Can evaluate the designs of individuals in design and how technology has helped shape the world.</p> <p>Can evaluate their own and peers work.</p>	<p>Where fabric comes from.</p> <p>Different fabrics are appropriate for different purposes.</p> <p>Different stitches are suitable for different purposes.</p>
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