



St Peter's Design Technology Medium term Plan



Year 6

<p>Spring 1</p> <p><u>Bridges</u></p>	<p>Summer 2</p> <p><u>Felt phone cases</u></p>
<ul style="list-style-type: none">When designing and making, pupils should be taught to: Designuse research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groupsgenerate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, computer-aided designMakeselect from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accuratelyselect from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualitiesEvaluateinvestigate and analyse a range of existing productsevaluate their ideas and products against their own design criteria and consider the views of others to improve their workunderstand how key events and individuals in design and technology have helped shape the worldTechnical knowledgeapply their understanding of how to strengthen, stiffen and reinforce more complex structures	<ul style="list-style-type: none">When designing and making, pupils should be taught to: Designuse research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groupsgenerate, develop, model and communicate their ideas through discussion, annotated sketches, prototypes, pattern piecesMakeselect from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accuratelyselect from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualitiesEvaluateinvestigate and analyse a range of existing productsevaluate their ideas and products against their own design criteria and consider the views of others to improve their workunderstand how key events and individuals in design and technology have helped shape the world

<ol style="list-style-type: none"> 1. To learn about key individuals who have helped shape the world (Alfred Neville) (vocab: architecture) 2. To research and investigate existing structures 3. To develop design criteria and generate ideas through annotated sketches and exploded diagrams 4. To develop ideas through computer aided-design (vocab: prototype) 5. To investigate how to strengthen, stiffen and reinforce structures (vocab: reinforce, stability) 6. To select from a range of tools and materials to make a functional product 7. To evaluate my own and others work against our own design criteria 	<ol style="list-style-type: none"> 1. To research and investigate existing products 2. To learn about key individuals who have helped shape the world (Coco Chanel) 3. To develop design criteria and generate ideas through annotated sketches (vocab: seam, fastening) 4. To develop ideas through prototypes and pattern pieces 5. To select materials and equipment according to their functional and aesthetic properties (vocab: embellish, applique) 6. To evaluate my own and others products against my own design criteria (use evaluation form on server)
Bridges- end points	Felt phone cases - end points
<p>Designer/Person of interest: Alfred Neville was responsible for the construction of many iron bridges including the truss bridge over Grand Canal in Venice.</p> <p>Skill: To be able to design and make a structure that is strong enough to withhold weight.</p> <p>Vocab: reinforce, architecture, stability, prototype</p>	<p>Designer/Person of interest: Coco Chanel was a French fashion designer.</p> <p>Skill: To be able to sew using a range of stitches and create a functional product with textiles.</p> <p>Vocab: seam, fastening, applique, embellish</p>
<p>Reinforce: to add additional material to strengthen or support something.</p> <p>Architect: a person who is qualified to design buildings and structures.</p> <p>Stability: the state of being stable, secure and strong</p> <p>Prototype: an original or first version of something.</p>	<p>Seam: a line of a sewn join.</p> <p>Fastening: a device that closes something.</p> <p>Applique: pieces of fabric which are stuck on to form a pattern.</p> <p>Embellish: to make something more attractive with extra detail.</p>