



St Peter's Design Technology Medium term Plan



Year 4

Spring 1 <u>Puppets</u>	Summer 2 <u>Kites</u>
<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, prototypes, pattern pieces and 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 world	Design <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 groupsgenerate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Make <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], accuratelyselect from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities Evaluate <ul style="list-style-type: none">investigate 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 Technical knowledge <ul style="list-style-type: none">apply their understanding of how to strengthen, stiffen and reinforce more complex structures
<ol style="list-style-type: none">To research, investigate and analyse a range of existing products (inc Jim Henson (designer of The Muppets))To develop design criteriaTo develop ideas through prototypes and pattern pieces (practise sewing) (vocab: running stitch, blanket stitch)To plan ideas through annotated sketches (vocab: aesthetic, synthetic)	<ol style="list-style-type: none">To understand how key individuals have helped shape the world (Homan J Walsh)To research and investigate existing productsTo develop design criteria and generate ideas through annotated sketches (vocab: annotate)To investigate how to strengthen, stiffen and reinforce joins (vocab: reinforce, stiffen)

5. To select from a range of materials according to aesthetic characteristics to make of product 6. To evaluate my own and others work against our own design criteria	5. To make a functional product; selecting from a range of tools and materials (wooden dowels + saws) (vocab: dowel) 6. To evaluate my own and others products against my own design criteria (use evaluation form on server)
Puppets- end points	Kites - end points
Designer/person of interest: Jim Henson was an American Puppeteer who created The Muppets. Skills: To be able to thread a needle To be able to sew using running or blanket stitch. Vocab: aesthetic, synthetic, running stitch, blanket stitch	Designer/person of interest: Homan J Walsh was a sixteen year old boy who helped with bridge construction by flying his kite from the Canadian to American shoreline. Skills: To be able to made a structure which is functional and strong. Vocab: reinforce, dowel, stiffen, annotate
Aesthetic: looking appealing, beautiful Synthetic: man made Running stitch: stitching in a dashed line Blanket stitch: a perpendicular stitch on the outer edge of the material.	Reinforce: to make something stronger Dowel: a rod made of wood Stiffen: become more stiffen and difficult to bend Annotate: to add a short explanation