

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
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Y1	Moving Pictures: Design and create a model alien spaceship. <ul style="list-style-type: none"> Explore how to use different techniques to join (split pins, tape, glue, concertinas...). Create products using levels. Begin to use a ruler. Cut materials safely using tools provided. To begin to develop design ideas and discuss how I would improve. Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing). 		Food - Pizza: Understand the importance of food hygiene and a healthy, balanced diet (Explain the importance of a healthy lunchbox). <ul style="list-style-type: none"> Cut, peel or grate ingredients safely and hygienically. Assemble ingredients. Additional Topic - Battery Products: <ul style="list-style-type: none"> To begin to explore battery operated devices. 		Building Bridges and Inspiration from the Greats: Research Santiago Calatrava - a Spanish architect and structural engineer (famous bridge designer) <ul style="list-style-type: none"> Begin to explore previous designs and explore how they have been created. To begin to develop design ideas and discuss how I would improve. To begin to practise strengthening products. Create products using levels. Cut materials safely using tools provided. Explore how to use different techniques to join. Begin to use a ruler. 	

Y2	<p>Food - Salads: Understand the importance of food hygiene and a healthy, balanced diet (Explain the importance of a healthy lunchbox).</p> <ul style="list-style-type: none"> • Cut, peel or grate ingredients safely and hygienically. • Measure or weigh using measuring cups or electronic scales. • Cook ingredients • Research, design, create and evaluate different types of salads • Suggest improvements to existing designs. <p>Inspiration from the Greats: National Museum of Qatar (2019) - Jean Nouvel (Doha, Qatar)</p>	<p>Finger Puppets (sewing): Plan, design, create and evaluate finger puppets.</p> <ul style="list-style-type: none"> • Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling) • Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen) • Measure and mark out to the nearest centimetre. • Shape textiles using templates and join them a using running stitch. • Explore objects and designs to identify dislikes of the designs and suggest improvements to existing designs. • Design products that have a clear purpose and intended user. • Make products, refining the design as work progress. 	<p>Moving Vehicles:</p> <ul style="list-style-type: none"> • Explore objects and designs to identify dislikes of the designs and suggest improvements to existing designs. • Explore how products have been created. Then design and make own products that have a clear purpose, intended user and refine the design as work progress. • Model designs using software (3D designs on Purple Mash) • Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products. • Create products using wheels and winding mechanisms. • Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen) • Measure and mark out to the nearest centimetre.
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<p>Y3</p>	<p>Sewing:</p> <ul style="list-style-type: none"> • Join textiles using running stitch and cross stitch. • Refine work and techniques as work progresses, continually evaluating the product design. • Improve upon existing designs, giving reasons for choices. <p>Inspiration from the Greats: Zaha Hadid - Known for futuristic designs</p>	<p>Photo Frames: Making photo frames as a Mother's Day gift</p> <ul style="list-style-type: none"> • Cut materials accurately and safely by selecting appropriate tools. • Continue to practise joining techniques. • To begin to choose how to construct. • Begin to explore different mechanisms. • Design with purpose and make products with independence. • Refine work and techniques as work progresses, continually evaluating the product design. • Improve upon existing designs, giving reasons for choices. 	<p>Food - Healthy Sandwiches:</p> <p>Understand the importance of food hygiene and a healthy, balanced diet (Explain the importance of a healthy lunchbox).</p> <ul style="list-style-type: none"> • Prepare ingredients hygienically using appropriate utensils. • Assembly or cook ingredients (controlling the temperature of the oven or hob, if cooking)
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<p>Y4</p>	<p>Storybooks – using mechanisms:</p> <ul style="list-style-type: none"> • Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs) • With independence select appropriate joining techniques. • Measure and mark to the nearest millimetre • Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears). • Choose suitable techniques to construct products or to repair items. • Strengthen materials using suitable techniques. • Design with purpose by identifying opportunities to design. • Make products by working efficiently (such as by carefully selecting materials.) • Use software to design and represent product designs. 	<p>Inspiration of the Greats: Identify some of the great designers in all of the areas of study (including pioneers in horticultural techniques). Luther Burbank – famous horticulturalist</p> <p>Food – Biscuits: Understand the importance of food hygiene and a healthy, balanced diet (Explain the importance of a healthy lunchbox).</p> <ul style="list-style-type: none"> • Prepare ingredients hygienically using appropriate utensils. • Measure ingredients to the nearest gram accurately. • Follow a recipe • Assembly or cook ingredients (controlling the temperature of the oven or hob, if cooking) 	<p>Sewing – Pencil cases:</p> <ul style="list-style-type: none"> • Understand the need for seam allowance • Join textiles with appropriate stitching • Select the most appropriate techniques to decorate textiles. • Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs) • With independence select appropriate joining techniques. • Measure and mark to the nearest millimetre
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<p>Y5</p>	<p>Christmas Baubles: Research, compare, design, create and evaluate Christmas baubles.</p> <ul style="list-style-type: none"> • Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration). • Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (such as the fabric may require sharper scissors than would be used to cut paper). • To begin to explore a range of practical skills. • Combine elements from a range of inspirational designers throughout history. • Create original designs and begin evaluate the product to make improvements for the user. • Begin to use innovative combinations of electronics (or computing) and mechanics in product designs. 	<p>Inspiration from the Greats: Paul Revere Williams (1894-1980)</p> <p>Myan Jewellery: Design, create and evaluate.</p> <ul style="list-style-type: none"> • Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (such as the fabric may require sharper scissors than would be used to cut paper). • To begin to explore a range of practical skills. • Combine elements from a range of inspirational designers throughout history. • Create original designs and begin evaluate the product to make improvements for the user. 	<p>Food - Baking Bread: Understand the importance of food hygiene and a healthy, balanced diet (Explain the importance of a healthy lunchbox).</p> <ul style="list-style-type: none"> • Demonstrate a range of baking and cooking techniques. • Understand the importance of correct storage and handling of ingredients (using knowledge of micro-organisms). • Measure ingredients to the nearest gram accurately. • Follow a recipe • Assembly or cook ingredients (controlling the temperature of the oven or hob, if cooking). • Researching, taste testing, designing, creating and evaluating bread.
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Y6	<p>Sewing – Christmas Stockings: Researching, comparing, designing, creating and evaluating Christmas stockings</p> <ul style="list-style-type: none"> • Cut materials with precision and refine the finish with appropriate tools (a more precise scissor cut after roughly cutting out a shape) • Create objects (such as a cushion) that employ seam allowance. • Use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles (such as a soft decoration for comfort on a cushion). 	<p>Food – Healthy Savoury Meal (Pasta): Understand the importance of food hygiene and a healthy, balanced diet (Explain the importance of a healthy lunchbox).</p> <ul style="list-style-type: none"> • Measure accurately and calculate ratios of ingredients to scale up or down from a recipe. • Create a refine recipes, including ingredients, methods, cooking times and temperature. • Evaluate the design of the products so as to suggest improvements to the user experience. <p>Inspiration from the Greats: Kazuyo Sejima – Japanese architect</p>	<p>Fairground Rides:</p> <ul style="list-style-type: none"> • Cut materials with precision and refine the finish with appropriate tools (sanding wood after cutting) • Create circuits using electronic kits that employ a number of components (such as LED's, resistors, transistors and chips) • Write code to control and monitor models or products. • Develop a range of practical skills to create products (cutting, drilling, screwing, nailing, gluing, filing) • Convert rotary motion to linear using cans. • Design with the user in mind, motivated by the service a product will offer (rather than simply for profit) • Make products through the stages of prototypes, making continual refinements with a high quality finish. • Combine elements from a range of inspirational designers throughout history, giving reasons for choices. • Create innovative designs that improve upon existing products. • Evaluate the design of the products so as to suggest improvements to the user experience.
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