



## Design & Technology Curriculum Milestone 1



Continuous Skills				
Design, make, evaluate and improve		Take inspiration from design throughout history		
<ul style="list-style-type: none"><li>• Design products that have a clear purpose and an intended user.</li><li>• Make products, refining the design as work progresses.</li><li>• Use software to design. Model designs using software.</li><li>• Talk about what they have made and how they have made it.</li><li>• Discuss how well the product works and what they could improve.</li></ul>		<ul style="list-style-type: none"><li>• Explore objects and designs to identify likes and dislikes of the designs.</li><li>• Suggest improvements to existing designs.</li><li>• Explore how products have been created.</li></ul>		
Mastering techniques Year 1				
		Basic	Advanced	Deep
<b>Materials &amp; Construction</b> <b>(Design and make a rescue device for saving someone at sea)</b>  <b>Trust, Koinonia, Friendship</b>	<ul style="list-style-type: none"><li>• Cut materials safely using tools provided.</li><li>• Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling).</li><li>• Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen).</li><li>• Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products.</li></ul>	<ul style="list-style-type: none"><li>• Generate a range of ideas for their designs.</li><li>• Investigate different materials that could be used (e.g. waterproof, floats etc.)</li><li>• Cut and shape materials to fulfil the design brief.</li></ul>	<ul style="list-style-type: none"><li>• Explain reasons for different designs and justify chosen materials.</li><li>• Use a range of tools and shaping techniques to create their rescue device.</li></ul>	<ul style="list-style-type: none"><li>• Use ongoing evaluation skills to modify and improve on design and rescue device.</li><li>• Strengthen rescue device as needed.</li></ul>



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<b>Food (Design and make a healthy picnic menu)</b>  <b>Thankfulness Respect</b>	<ul style="list-style-type: none"><li>• Cut, peel or grate ingredients safely and hygienically.</li><li>• Measure or weigh using measuring cups or electronic scales.</li><li>• Assemble or cook ingredients.</li></ul>	<ul style="list-style-type: none"><li>• Identify and name a range of healthy foods.</li><li>• Combine these into a design for a menu of a simple picnic.</li><li>• Choose and use ingredients that don't require preparation.</li></ul>	<ul style="list-style-type: none"><li>• Use a range of food preparation tools safely and hygienically.</li><li>• Assemble ingredients to complete their menu design.</li></ul>	<ul style="list-style-type: none"><li>• Explain and justify choices for the ingredients on the healthy picnic menu.</li></ul>
<b>Textiles (Design a t-shirt that has a repeating printed pattern)</b>  <b>Trust, Friendship</b>	<ul style="list-style-type: none"><li>• Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing).</li></ul>	<ul style="list-style-type: none"><li>• Explore different methods of printing.</li><li>• Use print design to create a repeating pattern on textiles.</li></ul>	<ul style="list-style-type: none"><li>• Choose and use an effective print design.</li><li>• Combine decorative techniques such as printing, dyeing or adding beads and sequins.</li></ul>	<ul style="list-style-type: none"><li>• Children explain how their design matches pieces from a chosen culture, explaining their choice of colours, shapes and patterns.</li></ul>
<b>Mastering techniques Year 2</b>				
		<b>Basic</b>	<b>Advanced</b>	<b>Deep</b>
<b>Textiles (Design and make a hand puppet for young children)</b>  <b>Compassion, Koinonia, Respect</b>	<ul style="list-style-type: none"><li>• Shape textiles using templates.</li><li>• Join textiles using running stitch.</li><li>• Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing).</li></ul>	<ul style="list-style-type: none"><li>• Children draw round their hands to create a template for a hand puppet.</li><li>• They join 2 templates together using a running stitch with support.</li></ul>	<ul style="list-style-type: none"><li>• Children use various decorating techniques to bring their puppet to life.</li></ul>	<ul style="list-style-type: none"><li>• Children evaluate and improve their puppets as their work through a range of processes.</li></ul>



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<b>Electricals and electronics</b> (See science curriculum)	• Diagnose faults in battery operated devices (such as low battery, water damage or battery terminal damage). <b>See Science curriculum</b>	<b>See Science curriculum</b>	<b>See Science curriculum</b>	<b>See Science curriculum</b>
<b>Materials, construction &amp; mechanics</b> (Design a fire engine with wheels and a retractable hose)  Compassion, Koinonia, Thankfulness	• Cut materials safely using tools provided. • Measure and mark out to the nearest centimetre. • 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). • Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products. • Create products using levers, wheels and winding mechanisms.	<ul style="list-style-type: none"><li>• Children look at and choose features from existing fire engines.</li><li>• Explore mechanisms to choose an effective method for retracting a hose.</li><li>• Design and make a basic frame with axles and wheels.</li></ul>	<ul style="list-style-type: none"><li>• Choose and use a range of methods to shape and join provided materials for their vehicles frames.</li><li>• Measure and mark materials to create a basic frame.</li><li>• Use tools safely to cut and shape given materials.</li><li>• Add on a winding mechanism to created frames.</li></ul>	<ul style="list-style-type: none"><li>• Explain chosen methods of design and making.</li><li>• Evaluate approaches used and suggest alternative methods.</li><li>• Evaluate final product and if it fulfils the brief.</li></ul>
<b>Food</b> (Design and make a healthy picnic menu)  Thankfulness, Respect, Koinonia	• Cut, peel or grate ingredients safely and hygienically. • Measure or weigh using measuring cups or electronic scales. • Assemble or cook ingredients.	<ul style="list-style-type: none"><li>• Identify and name a range of healthy foods.</li><li>• Combine these into a design for a menu of a simple picnic.</li><li>• Choose and use ingredients that don't require preparation.</li></ul>	<ul style="list-style-type: none"><li>• Use a range of food preparation tools safely and hygienically.</li><li>• Assemble ingredients to complete their menu design.</li></ul>	<ul style="list-style-type: none"><li>• Explain and justify choices for the ingredients on the healthy picnic menu.</li></ul>