



	Design	Make	Evaluate	Technical knowledge
<p>Y3</p> <p>Autumn Topic: Weaving Focus: Textile and pattern</p> <p>Spring Topic: Siege Machines Focus: Structures</p> <p>Summer Topic: Cooking Focus: Bread Making and Sandwiches</p>	<ul style="list-style-type: none"> Develop my own design criteria with support. Describe what my product does and its key features. Explain in simple terms how my product will work. Use a range of drawing skills to design my product including prototypes. 	<ul style="list-style-type: none"> Follow simple instructions. Select appropriate tools and use them safely with some accuracy. Measure, mark out, cut, saw, shape, assemble, join, combine and finish with some accuracy often with adult support. 	<ul style="list-style-type: none"> Comment on the usefulness of products in everyday use Evaluate their product against the original design criteria e.g. how well it meets its intended purposes. Be able to suggest improvements to your product Be able to identify the ways in which products in everyday use meet specific needs. 	<ul style="list-style-type: none"> To know that materials can be chosen because of their different qualities and appearance. To know how to make a strong, stiff structure.
<p>Y4</p> <p>Autumn Topic: Money containers/ purses Focus: Textile</p> <p>Spring Topic: Making a moving book character Focus: Levers and linkages</p> <p>Summer Topic: Cooking Focus: Design and making healthy savoury scones</p>	<ul style="list-style-type: none"> Develop my own design criteria. Describe the purpose and the design features of my product. Explain how my product will work. Use a range of drawing skills to design my product including prototypes 	<ul style="list-style-type: none"> Order and follow simple instructions. Select appropriate tools and use them accurately and safely. Measure, mark out, cut, shape, assemble, join, combine and finish with some accuracy. 	<ul style="list-style-type: none"> Evaluate my ideas and products against the design criteria. Investigate how well the products have been designed including strengths and weaknesses, and how they overcame challenges. 	<ul style="list-style-type: none"> To know that materials have functional and aesthetic qualities. To know how to make strong, stiff structure.
<p>Y5</p> <p>Autumn Topic: Christmas decoration Focus: Textiles</p> <p>Spring Topic: Moving Toys Focus: CAMs mechanisms</p>	<ul style="list-style-type: none"> Carry out research and develop a simple design specification. Describe user, purpose and design features of my products and explain how they will work. 	<ul style="list-style-type: none"> Select appropriate materials, tools and techniques for the task and understand that different techniques, tools and materials are needed for different tasks 	<ul style="list-style-type: none"> Identify strengths and areas to develop my ideas and products against my simple design specification. Consider the views of others to make improvements. 	<ul style="list-style-type: none"> To know that materials have functional and aesthetic qualities and can explain simply how these influence design choices.



<p>Summer Topic: Cooking Focus: Pizza and seasonal toppings</p>	<ul style="list-style-type: none"> • Accurately use a range of drawing skills to design my product including prototypes and pattern pieces. 	<ul style="list-style-type: none"> • Measure, mark out and saw accurately • Use skills in using different tools and equipment safely and accurately • Cut and join with accuracy to ensure a good-quality finish to the product • Use techniques that involve a number of steps • Mechanisms: Understand how systems such as cams, pulleys or gears create movement (moving toys). 	<ul style="list-style-type: none"> • Investigate how well the products have been designed and made; whether they are fit for purpose and meet user needs; why materials have been chosen; the methods of construction used and how well they work. • Begin to investigate how sustainable the products are. 	
<p>Y6 Autumn Topic: Bridges Focus: Lever Mechanisms</p> <p>Spring Topic: Cooking Focus: Veggie pasta meal</p> <p>Summer Topic: Fairground/Buggy Focus: Control: Electrical</p>	<ul style="list-style-type: none"> • Carry out research and develop a design specification. • Clearly and concisely describe user, purpose and design features of my products and explain how they will work. • Accurately use a range of drawing skills to design my product including prototypes, exploded diagrams and CAD. 	<ul style="list-style-type: none"> • Independently select appropriate tools, equipment and materials from a wider variety, and justify my selection. • Accurately measure and select the appropriate technique/ procedure to measure, mark out, cut, shape, assemble, join, combine and finish to ensure the high quality of the finished product. 	<ul style="list-style-type: none"> • Identify strengths and areas to develop my ideas and products against my design specification. • Consider the views of others to make improvements • Investigate how well the products have been designed and made, whether they are fit for purpose and meet user needs; why materials have been chosen, the methods of construction used and how well they work. • Comment on how innovative and sustainable the products are based on an external set of criteria. 	<ul style="list-style-type: none"> • To know that materials have functional and aesthetic qualities and can explain in detail how these influence design choices • To know that systems have an input, process and output; how to program a computer to control and monitor products and how to reinforce and strengthen a framework. EXPLORE WORKSHOP PROVISION.