



“To enable children to make sense of the ‘made world’ in which they live through applying their substantive and disciplinary knowledge to design solutions to solve problems, preparing them for work in design industries.”

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Edible Garden (Twinkl)		Pneumatics		Textiles- Anglo Saxon Purses	
	<p>Design Brief: To make a healthy dish including naturally grown produce.</p>		<p>Design Brief: To make a monster including a moving pneumatic system.</p>		<p>Design Brief: To design and make an Anglo-Saxon purse.</p>	
	<ul style="list-style-type: none"> Understand the eat well plate and know which foods they should be eating more and less of. Understand and know where and how a variety of ingredients are grown. Prepare ingredients safely and hygienically using appropriate kitchen utensils. Understand the correct proportions of a balanced meal. Be able to plant and care for a variety of ingredients so they yield produce. Measure ingredients to the nearest millilitre accurately and assemble or cook ingredients. To cut food using the claw hold technique independently. 		<ul style="list-style-type: none"> Understand how pneumatic systems work. To know that mechanisms are a system of parts that work together to create motion. To know that pneumatic systems can be used as part of a mechanism Investigate a range of everyday objects where pneumatics are used. <p>-Examples of products that use air eg pneumatic toys, foot pump for inflating air mattress, balloon pump.</p> <ul style="list-style-type: none"> To know that pneumatic systems force air over a distance to create movement. To know that different balloons can be used to create different types of pneumatic systems. Designing a toy which uses a pneumatic system and meets given design brief. Develop own design criteria from a design brief. Generating ideas using exploded diagrams. 		<ul style="list-style-type: none"> Generate ideas for an item considering its purpose and the user/s. Identify a purpose and establish criteria for a successful product. Plan the order of their work before starting. Explore, develop and communicate design proposals by modelling ideas. Practise a range of stitching techniques on small squares of material and put in books. <p>-running stitch, invisible stitch, back stitch and whip stitch, tacking stitches and hemming stitch.</p> <ul style="list-style-type: none"> Make drawings with labels when designing. Select tools and techniques for making their product. Measure, mark out and cut with more accuracy. Work safely and accurately with a range of simple tools. <p>-Scissors, needles and thread and pins.</p> <ul style="list-style-type: none"> Think about their ideas as they make progress and be willing change things if this helps them improve their work. Measure, tape or pin, cut and join fabric with some accuracy. Sew using <p>-running stitch, invisible stitch, back stitch and whip stitch, tacking stitches and hemming stitch.</p> <ul style="list-style-type: none"> Evaluate their product against original design criteria e.g. how well it meets its intended purpose 	



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	Key Vocabulary	<ul style="list-style-type: none"> • 1 and 2 Vocabulary plus • Fruit and vegetables; • Bread, rice, potatoes, pasta and other starchy foods • Carbohydrates and starches. • Milk and dairy foods • Meat, fish, eggs, beans and other non-dairy sources of protein; • • Foods and drinks high in fat and/or sugar. • Sugars and fats • Seasonality • Flavour • Home grown • Naturally grown • Organically grown • Produce • Millilitre • Degrees Celsius 	<ul style="list-style-type: none"> • Brainstorm • Suggestion • Evaluate • idea • constraints • probable • possible • impossible • planning • components • fixing • tubing • syringe • attaching • finishing • control • pneumatic system • pressure • inflate • deflate • input • output • pump • fastest • slowest 			<ul style="list-style-type: none"> • Fabric • Design • Purpose • running stitch • invisible stitch • back stitch • whip stitch • tacking stitches • hemming stitch • Applique • Measure • Mark out • Pin • Tac • Tape • Hem • Cm/mm 	
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Covered once within the two year cycle.