



Design & Technology Overview 2022-2023

	Autumn	Spring	Summer
Nursery	Children will engage with a variety of stimulating resources and rich learning opportunities and will be supported to take risks and explore. Opportunities for children to play with materials before using them in planned tasks will be given. A learning community which focuses on how and not just what we are learning will be developed. Children will be given opportunities to represent and develop their own ideas, and experiences that follow the ideas of children will be planned.		
Reception / Year 1	<p>Food</p> <p>Understand where a range of fruit and vegetables come from e.g. farmed or grown at home.</p> <p>Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of <i>The Eatwell plate</i>.</p> <p>Know and use technical and sensory vocabulary relevant to the project.</p>	<p>Textiles</p> <p>Understand how simple 3-D textile products are made, using a template to create two identical shapes.</p> <p>Understand how to join fabrics using different techniques e.g., running stitch, glue, over stitch, stapling.</p> <p>Explore different finishing techniques.</p> <p>Know and use technical vocabulary relevant to the project.</p>	<p>Workshop</p> <p>Know how to make freestanding structures stronger, stiffer and more stable.</p> <p>Know and use technical vocabulary relevant to the project.</p>
Year 2 /3	<p>Mechanisms</p> <p>Explore and use wheels, axles and axle holders.</p> <p>Distinguish between fixed and freely moving axles.</p> <p>Know and use technical vocabulary relevant to the project.</p>	<p>Textiles</p> <p>Know how to strengthen, stiffen and reinforce existing fabrics.</p> <p>Understand how to securely join two pieces of fabric together.</p> <p>Understand the need for patterns and seam allowances.</p>	<p>Food</p> <p>Understand about seasonality in relation to food products and the source of different food products.</p> <p>Know about a range of fresh and processed ingredients appropriate for their product, and whether they are grown, reared or caught.</p>

		Know and use technical vocabulary relevant to the project.	Know and use relevant technical and sensory vocabulary.
Year 4/5	<p>Textiles</p> <p>Know how to strengthen, stiffen and reinforce existing fabrics.</p> <p>Understand how to securely join two pieces of fabric together.</p> <p>Understand the need for patterns and seam allowances.</p> <p>Know and use technical vocabulary relevant to the project.</p>	<p>Food</p> <p>Know how to use utensils and equipment including heat sources to prepare and cook food.</p> <p>Understand about seasonality in relation to food products and the source of different food products.</p> <p>Know and use relevant technical and sensory vocabulary.</p>	<p>Workshop</p> <p>Understand that mechanical and electrical systems have an input, process and an output.</p> <p>Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement.</p> <p>Know and use technical vocabulary relevant to the project.</p>
Year 5/6	<p>Workshop</p> <p>Understand how to strengthen, stiffen and reinforce 3-D frameworks.</p> <p>Know and use technical vocabulary relevant to the project.</p> <p>Understand that mechanical and electrical systems have an input, process, and an output.</p> <p>Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement.</p> <p>Know and use technical vocabulary relevant to the project.</p>	<p>Food</p> <p>Know how to use utensils and equipment including heat sources to prepare and cook food.</p> <p>Understand about seasonality in relation to food products and the source of different food products.</p> <p>Know and use relevant technical and sensory vocabulary.</p>	<p>Textiles</p> <p>Produce a 3-D textile product from a combination of accurately made pattern pieces, fabric shapes and different fabrics.</p> <p>Understand how fabrics can be strengthened, stiffened, and reinforced where appropriate.</p> <p>Know and use technical vocabulary relevant to the project.</p>