



**St Teresa's Catholic Primary School**

**Design & Technology Knowledge Progression**

EYFS Curriculum			
Unit	Autumn	Spring	Summer
	<p><b>Design: Christmas Cards</b></p> <ul style="list-style-type: none"><li>• I know how to fold paper to create a card.</li><li>• I know how to draw and colour a festive picture.</li><li>• I know how to add decorative elements such as glitter, fabric, or stickers.</li><li>• I know how to write a message inside the card.</li><li>• I know how to think about the recipient of the card and design it for them.</li></ul>	<p><b>Structures: Junk Modelling Vehicles</b></p> <ul style="list-style-type: none"><li>• I know how to explore and experiment with different materials (cardboard, paper, plastic).</li><li>• I know how to manipulate materials to create a vehicle (cutting, shaping, joining).</li><li>• I know how to use a basic mechanism to make my vehicle move.</li><li>• I know how to test and adjust my model to improve its movement.</li><li>• I know how to think about the function of my vehicle (does it roll?).</li><li>• I know how to assess the materials I choose to make sure my vehicle is sturdy.</li></ul>	<p><b>Textiles: Animal Masks</b></p> <ul style="list-style-type: none"><li>• I know how to select and use materials such as card, fabric, and paper to make a mask.</li><li>• I know how to cut and shape materials to create the features of an animal (ears, eyes, nose).</li><li>• I know how to use glue and scissors to assemble my mask.</li><li>• I know how to wear and adjust my mask for comfort.</li><li>• I know how to evaluate my mask and make improvements to fit better or look more realistic.</li></ul>

Year 1			
Unit	Autumn	Spring	Summer
	<b>Nutrition: Smoothies</b> <ul style="list-style-type: none"> <li>• I know how to select healthy ingredients (fruit, milk, yogurt).</li> <li>• I know how to prepare ingredients safely (peeling, chopping).</li> <li>• I know how to blend ingredients to make a smooth texture.</li> <li>• I know how to evaluate the taste of my smoothie and make adjustments.</li> <li>• I know the importance of eating a balanced diet.</li> <li>• I know how to serve my smoothie and present it attractively.</li> </ul>	<b>Mechanisms: Sliders and Levers – Moving Picture</b> <ul style="list-style-type: none"> <li>• I know how to use simple mechanisms (sliders and levers) to create movement in a design.</li> <li>• I know how to sketch my ideas before starting.</li> <li>• I know how to use scissors and glue to attach the components.</li> <li>• I know how to test and adjust my mechanism to ensure it works smoothly.</li> <li>• I know how to evaluate the success of my design by checking if the mechanism moves properly.</li> <li>• I know how to make improvements based on my tests.</li> </ul>	<b>Structures: Free-Standing Structures</b> <ul style="list-style-type: none"> <li>• I know how to build a strong, free-standing structure using blocks, sticks, or other materials.</li> <li>• I know how to join materials together (glue, tape, or clips).</li> <li>• I know how to assess the strength and stability of my structure.</li> <li>• I know how to improve the stability of my design by making it stronger or stiffer.</li> <li>• I know how to evaluate and modify my structure to make it stand without support.</li> </ul>

Year 2			
Unit	Autumn	Spring	Summer
	<b>Nutrition: Fruit and Vegetable Salad</b> <ul style="list-style-type: none"> <li>• I know how to select a variety of fruits and vegetables for a healthy salad.</li> <li>• I know how to chop and prepare ingredients safely.</li> <li>• I know how to combine different ingredients to make the salad look attractive.</li> <li>• I know how to dress my salad with healthy options such as olive oil or lemon juice.</li> <li>• I know how to evaluate the taste and texture of my salad.</li> <li>• I know why it is important to eat a variety of fruits and vegetables for health.</li> </ul>	<b>Mechanisms: Wheels and Axles Vehicles</b> <ul style="list-style-type: none"> <li>• I know how to use materials such as card, wood, or plastic to make a vehicle.</li> <li>• I know how to create wheels and axles for my vehicle to make it move.</li> <li>• I know how to test my vehicle and make adjustments to ensure it moves smoothly.</li> <li>• I know how to use glue or tape to assemble my vehicle.</li> <li>• I know how to evaluate the movement of my vehicle and suggest improvements.</li> </ul>	<b>Textiles: Puppets</b> <ul style="list-style-type: none"> <li>• I know how to use a range of materials to make a puppet (fabric, buttons, thread).</li> <li>• I know how to stitch simple parts of fabric together (using running stitch or glue).</li> <li>• I know how to create a character by adding features such as eyes, mouth, and hair.</li> <li>• I know how to create a design for my puppet before I begin making it.</li> <li>• I know how to evaluate my puppet and improve it (such as making it more durable).</li> <li>• I know how to use my puppet to tell a simple story.</li> </ul>

Year 3			
Unit	Autumn	Spring	Summer
	<b>Nutrition: Festive Meals</b> <ul style="list-style-type: none"> <li>• I know how to plan a meal that is nutritious and festive.</li> <li>• I know how to prepare ingredients safely and hygienically.</li> <li>• I know how to use cooking equipment (knives, graters, ovens) under supervision.</li> <li>• I know how to present food attractively.</li> <li>• I know how to taste and evaluate my meal, considering both flavour and nutritional value.</li> </ul>	<b>Structures: Building Bridges</b> <ul style="list-style-type: none"> <li>• I know how to select materials to build a strong bridge (cardboard, sticks, string).</li> <li>• I know how to design a bridge to span a gap and hold weight.</li> <li>• I know how to test the strength of my bridge by adding weight.</li> <li>• I know how to improve the strength of my bridge by reinforcing certain parts.</li> <li>• I know how to evaluate and reflect on the effectiveness of my design.</li> <li>• I know how to consider stability and balance when designing my bridge.</li> </ul>	<b>Mechanisms: Levers and Linkages</b> <ul style="list-style-type: none"> <li>• I know how to design a moving mechanism using levers, linkages, and pivots.</li> <li>• I know how to use simple tools to cut and assemble components for the mechanism.</li> <li>• I know how to test the mechanism to ensure it works.</li> <li>• I know how to modify my design if it doesn't work as expected.</li> </ul> <p>I know how to describe how the mechanism moves and what it does.</p>

Year 4			
Unit	Autumn	Spring	Summer
	<b>Nutrition: Rearing and Catching Food</b> <ul style="list-style-type: none"> <li>• I know how different food ingredients are sourced (farming, fishing, foraging).</li> <li>• I know how to prepare ingredients safely (e.g., washing, peeling, chopping).</li> <li>• I know how to cook a meal that includes ingredients sourced from nature.</li> <li>• I know how to evaluate the nutritional content of my meal.</li> <li>• I know how to consider sustainability when sourcing food.</li> <li>• I know how to present my meal in an appealing way.</li> </ul>	<b>Electrical Systems: Torches</b> <ul style="list-style-type: none"> <li>• I know how to use a circuit to make a torch light up.</li> <li>• I know how to safely use electrical components (wires, batteries, bulbs).</li> <li>• I know how to design and build a casing for the torch.</li> <li>• I know how to test my torch to ensure it works.</li> <li>• I know how to evaluate my torch and suggest ways to improve it.</li> </ul>	<b>Textiles: Carnival Headdress</b> <ul style="list-style-type: none"> <li>• I know how to select and use fabrics and materials for a headdress.</li> <li>• I know how to sew or glue parts of the headdress together.</li> <li>• I know how to incorporate decorative elements such as beads or feathers.</li> <li>• I know how to design a headdress that is both functional and creative.</li> <li>• I know how to evaluate the comfort and fit of my headdress.</li> </ul>

Year 5			
Unit	Autumn	Spring	Summer
	<p><b>Nutrition: Seasonality Food (Autumn)</b></p> <ul style="list-style-type: none"><li>• I know what foods are in season in autumn and why this is important.</li><li>• I know how to choose seasonal ingredients that are healthy and nutritious.</li><li>• I know how to prepare and cook dishes safely using these ingredients.</li><li>• I know how to evaluate the taste and presentation of my dish.</li><li>• I know how to consider sustainability and local sourcing in my food choices.</li></ul>	<p><b>Textiles: Belt with Loops and Pockets</b></p> <ul style="list-style-type: none"><li>• I know how to select fabric that is durable and suitable for a belt.</li><li>• I know how to sew loops and pockets onto fabric using simple stitches.</li><li>• I know how to design and cut a belt to fit a specific size.</li><li>• I know how to add functional elements to the belt, such as pockets for storage.</li><li>• I know how to evaluate my belt to ensure it is functional and comfortable.</li></ul>	<p><b>Mechanical Systems: Cam, Pulleys, and Gears</b></p> <ul style="list-style-type: none"><li>• I know how to design and build a mechanical system using cams, pulleys, or gears.</li><li>• I know how to test my mechanical system to see if it works.</li><li>• I know how to modify my design to improve its function.</li><li>• I know how to evaluate my mechanical system and explain how it works.</li></ul> <p>I know how to use precise measurements and tools to construct my mechanism.</p>



Year 6			
Unit	Autumn	Spring	Summer
	<b>Nutrition: Balanced Meals</b> <ul style="list-style-type: none"> <li>• I know what constitutes a balanced diet (proteins, carbohydrates, fats, vitamins).</li> <li>• I know how to select ingredients to make a healthy and nutritious meal.</li> <li>• I know how to prepare and cook meals safely.</li> <li>• I know how to evaluate the nutritional value of my meal.</li> <li>• I know how to adjust my meal based on dietary needs (e.g., vegetarian, gluten-free).</li> </ul>	<b>Structures: Model House Design</b> <ul style="list-style-type: none"> <li>• I know how to select materials that will make my house sturdy and weather-resistant.</li> <li>• I know how to join materials in a way that ensures strength and stability.</li> <li>• I know how to plan the layout and design of the house.</li> <li>• I know how to evaluate the functionality and durability of my model.</li> <li>• I know how to make modifications to improve my design.</li> </ul>	<b>Digital Design: 3D Printing</b> <ul style="list-style-type: none"> <li>• I know how to use 3D design software to create a digital model.</li> <li>• I know how to transform my design into a 3D printable file.</li> <li>• I know how to set up and operate a 3D printer.</li> <li>• I know how to evaluate the functionality and appearance of my 3D printed object.</li> <li>• I know how to make adjustments to my design if the printed object is not as expected.</li> </ul>