



# St Patrick's Catholic Primary School

## D&T overview



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p style="text-align: center;"><b><u>Windmills</u></b></p> <p>Children will learn to evaluate, design and make spinning windmill structures. They will be able to reinforce a structure to make it stronger and stiffer using construction materials. Pupils will practise using scissors for cutting, and tape and glue for joining.</p>		<p style="text-align: center;"><b><u>Flying Kites</u></b></p> <p>Children will design a purposeful product for themselves or someone else. They will test and evaluate real kites before deigning their own kite and deciding which textile material will be most suitable. Children will learn how to use a needle and tread to attach embellishments.</p>		<p style="text-align: center;"><b><u>Teddy Bear's Picnic</u></b></p> <p>Children will learn the basic principles of a healthy and varied diet. They will learn how to make appealing products and how to prepare food safely and hygienically. The children will taste and use a range of ingredients to make snacks suitable for a picnic.</p>	
Year 2	<p style="text-align: center;"><b><u>Moving Toys with electrical components</u></b></p> <p>Children will learn to evaluate, design and make spinning windmill structures. They will be able to reinforce a structure to make it stronger and stiffer using construction materials. Pupils will practise using scissors for cutting, and tape and glue for joining.</p>		<p style="text-align: center;"><b><u>Perfect Pizza</u></b></p> <p>Pupils will taste a range of pizzas and toppings to evaluate flavours and textures. They will use the basic principles of a healthy and varied diet to design and prepare pizzas, showing an awareness of where different ingredients come from. Children will develop their food preparation skills.</p>		<p style="text-align: center;"><b><u>Puppets</u></b></p> <p>Children will explore and evaluate a range of puppet designs before learning the skills needed to make their own using textile materials. Children will use a needle and thread to join materials and add embellishments. They will design and make a puppet for someone else.</p>	
Year 3	<p style="text-align: center;"><b><u>Photo Frames</u></b></p> <p>Children will design an innovative, functional product for someone else. They will evaluate a range of existing photo frame designs before planning their own with design criteria in mind. The children will develop an understanding of how to make structures that are strong and secure through designing products that have a wide base. Pupils will develop their cutting, joining and finishing skills.</p>		<p style="text-align: center;"><b><u>Houmous</u></b></p> <p>Children start off this unit tasting a range of healthy dips and evaluating their flavours, textures and appearance. They learn about the seasonality of ingredients used in houmous, their nutritional value and where they come from. Children then plan and make their own dip, applying the principals of a healthy diet</p>		<p style="text-align: center;"><b><u>Lampshades</u></b></p> <p>Children visit a department store to find out about different lampshade designs and how they work. They learn how to dye fabrics, applique and emeblish using scissors, needle and thread and fabric glue. They then design their own lampshade based on their own design criteria, before making and evaluating their product.</p>	
Year 4	<p style="text-align: center;"><b><u>Torches</u></b></p> <p>Pupils will design and make a functional torch. Children will learn to develop their construction design understanding through evaluating existing products, cross-sectional diagrams and testing a range of materials. They will have the opportunity to use electrical systems in their torch. They will develop their technical skills, using wire strippers, electrical tape and glue guns carefully and accurately.</p>		<p style="text-align: center;"><b><u>American Food</u></b></p> <p>Children will taste and evaluate a range of dishes synonymous with a wide range of American cultures. They will learn about seasonality and the principals of a healthy life style. The children will design their own version of a savoury American classic through developing design criteria. In addition to their own dish, every child will work with a professional caterer to make apple pie from scratch which they will take home to share with their families.</p>		<p style="text-align: center;"><b><u>Pencil Cases</u></b></p> <p>Children will explore and evaluate a range of existing pencil case designs. They will explore different ways of closing cases and select materials according to their aesthetic properties. Pupils will communicate their ideas through exploded diagrams after writing their own design criteria.</p>	
Year 5	<p style="text-align: center;"><b><u>Bread</u></b></p> <p>Pupils will try a range of bread types and savoury flavour combinations. They will learn about balanced and healthy diets, seasonality and how some of the ingredients in bread have been processed. Children will work with professional caterer to prepare their own bread and flavouring, mixing, kneading and proving their own bake</p>		<p style="text-align: center;"><b><u>Toys with Cams</u></b></p> <p>Children will experiment with different cam designs and toys that use cams. They will select and use construction materials based on their functional properties to make prototypes. Children will design a toy for a younger child before applying their skills and technical knowledge to make their design.</p>		<p style="text-align: center;"><b><u>Funky Furnishings</u></b></p> <p>Children will visit a department store to investigate and evaluate a range of existing furnishings, specifically focusing on cushion designs. They will consider how they have been designed to open and close, and to look attractive. Children will practise skills such as sewing beading, adding zippers and using wadding. They will choose materials according to how they look to design and make a cushion for someone else.</p>	
Year 6	<p style="text-align: center;"><b><u>Burglar Alarms</u></b></p> <p>Children will design an innovative product to keep intruders out of their desk draws! They will communicate their ideas through prototypes before designing their own burglar alarm using construction materials. They will apply their understanding of electrical components into their alarm system.</p>		<p style="text-align: center;"><b><u>Burgers</u></b></p> <p>Children will start this unit by visiting a local burger joint to taste and evaluate a range of burger patties, toppings and bun types. They will design an appealing product applying the principals of a healthy diet, seasonality and taste. They will use a range of techniques including frying and preserving</p>		<p style="text-align: center;"><b><u>Textiles Project with King's Academy</u></b></p> <p>Year 6 will spend 2 days working at King's Academy to plan, design and evaluate a functional and appealing textiles project using specialist equipment such as CAD and sewing machines.</p>	