



St. Michael in the Hamlet Primary School
Design and Technology Curriculum Overview 2024 - 2025

Year Group	Autumn 1/2	Spring 1/2	Summer 1/2
Reception	<p>To manipulate and play with different materials and objects.</p> <p>To develop communication and language skills – importance of listening carefully, and using talk to describe, connect, explain and question – extending vocabulary to support this.</p> <p>To develop fine motor skills to enable children to control and manipulate materials and tools.</p> <p>To develop mark-making skills and confidence to plan and record their ideas.</p> <p>To explore the world around them and understand the effect of changing seasons on the natural world around them.</p>		
	<p>Explore a range of materials using talk to describe what they see, feel, hear, inc. identifying differences.</p> <p>To explore a variety of pop-up books and moving toys.</p> <p>Explore and create using a range of materials – rotate and manipulate objects/ shapes</p> <p>Use a range of materials & construction kits to build and create structures, inc. Houses for the 3 pigs, bridge for the 3 Billy Goats or the GBM, dens/ nests, etc.</p> <p>Explore and manipulate textiles and yarn – winding yarn around magic wands, etc.</p> <p>To have gone on a minibeast hunt and be able to identify different minibeasts</p> <p>Explore a range of food/ dishes – describe what it tastes, smells, feels like, e.g. gingerbread, porridge.</p>	<p>Identify similarities and differences in materials and objects.</p> <p>To use tools to shape and join materials, inc. scissors, glue, tape and hole punches.</p> <p>Explore and manipulate textiles and yarn – threading laces using boards, beads, card and leaves, weaving textiles and yarns, etc.</p> <p>To begin to use talk to explain how things work/ why they might happen, organise thinking/ activities, and help sort out problems.</p> <p>To explore how things work, e.g. toy vehicles/ bikes, etc.</p> <p>Use a range of materials & construction kits to build and create something that moves, e.g. car or helicopter using mobilo</p>	<p>To explore how to shape and join materials to create different 3D shapes and structures (inc cylinders/ cubes/ flanges and flaps) e.g. shelter/ enclosure for a zoo animal</p> <p>Plan, create and review – using speech and mark-making to enable this.</p> <p>Plant seeds and care for growing plants.</p> <p>To begin to understand the need to respect and care for the natural world and living things.</p> <p>To create inventions to make the world a better place, e.g. wind-powered boat/ car.</p> <p>Explore (handle, smell and taste) a wide variety of fruit and vegetables. Talk about where different food comes from</p>
Year 1	<p>Fab Fruits and Amazing Vegetables Cooking and Nutrition cutting/grating/ peeling</p>	<p>Moving Mini-Beasts Mechanical Systems Pivots and Levers, Wheels</p>	<p>Stable Structures Structures characteristics of materials, Stability/ stronger/ stiffer</p>
Year 2	<p>Animal Puppets Textiles Overstitch, sewing on buttons</p>	<p>Vehicles A-go-go! Mechanical Systems Axle, Chassis, Wheel and Body</p>	<p>Perfect Pizzas Cooking and Nutrition Eatwell plate, cutting/ grating/ sieving/ mixing kneading</p>
Year 3	<p>Seasonal Foods Cooking and Nutrition seasonality, follow a recipe, slice/dice/beat/whisk/bake</p>	<p>Moving Storybooks Mechanical Systems linkages, pivot, rotate, lever, pop-ups, wheel</p>	<p>Marvellous Musical Instruments! Structures 3D shell structures</p>

<p>Year 4</p>	<p>Seasonal Stockings Textiles running stitch, decorative techniques to embellish</p>	<p>Light-Up Signs Programming & Electrical Systems circuits, bulbs, switches, LEDs</p>	<p>Mini-Greenhouses Structures stability vs shape/ base width, 3D net prototypes, use of triangulation</p>
<p>Year 5</p>	<p>Chinese Inventions Kites & Mechanical Systems transmissions, cranks</p>	<p>Fashion and Textiles Textiles back stitch, whip/blanket stitch, applique</p>	<p>Building Bridges Structures beams, pillars, truss, arch, suspension, cross-sectional diagrams</p>
<p>Year 6</p>	<p>Bird House Builders Structures exploded diagrams, CAD woodwork skills – measure, saw, sand and join</p>	<p>Burgers Cooking and Nutrition Nutritional labels, healthy ingredients, different cooking techniques, adapting recipes to reflect global cuisine, using herbs/spices & seasoning to adjust flavour</p>	<p>Programming Pioneers Programming & Electrical Systems Algorithms, system, program/ monitor/ control, prototype</p>