



Granby Primary School

Design and Technology Curriculum Map



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Using and joining different materials: collage and modelling.</p> <p>Model Making: Make a worry monster. Salt dough hedgehog. Make a patrol crossing stick.</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Using and joining different materials: Make Christmas decorations and Chinese lanterns. Use different materials to make an owl.</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Using and joining different materials: Use different materials to make a snowman.</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Using and joining different materials: Easter decorations and crafts, tea party crowns.</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Junk model a form of transport based on text: Journey Home from Grandpa's House.</p> <p>Using and joining different materials: Combine materials to create fish.</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Using and joining different materials: Fathers' Day craft day.</p> <p>Model Making: Make a type of transport.</p> <p style="text-align: right;">Granby STEM Day</p>
Reception	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Using tools: Scissor skills, pattern cutting.</p> <p>Exploring materials: collage, making a colour jar.</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Exploring materials and using tools: Using junk to make props for the play.</p> <p>Model Making: Salt dough or clay to make a firework or Christmas decoration. (New 2023)</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Exploring materials and using tools: different ways to make a penguin using combination of materials, create alien hats, build a little pig's house out of junk.</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Exploring materials and using tools: Making a Mothers' Day gift, Easter craft day. Design and make shakers.</p> <p>Food: Making fruit salad kebabs.</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Exploring materials and using tools: Make tea party hats and crowns and design and make a London bus out of junk.</p>	<p>Continuous provision: Junk modelling and dough modelling always available.</p> <p>Exploring materials and using tools: Fathers' Day craft day.</p> <p>Design summer clothes.</p> <p>Moving models: Split pin farm animals (New 2023)</p> <p style="text-align: right;">Granby STEM Day</p>
Year 1	<p>DT Day: Unit TBC</p> <p>New to autumn 2023</p>	<p>Kapow: Simple mechanisms (levers/ sliders/ wheel) and playground model making</p> <p>Explore simple mechanisms and the movement they output. Story book.</p>	<p>Kapow: Wheels: how axles work. Designing a London Bus moving vehicle</p> <p>Making Bread: 2 days - Not Kapow</p>	<p>Kapow: Food: Smoothie making</p> <p>Learn to distinguish between fruit and vegetables and where they grow. Design a fruit and vegetable smoothie and packaging.</p>		<p>Kapow: Puppet making – Explore methods of joining fabrics using preferred joining technique. Decorate puppet.</p> <p style="text-align: right;">Granby STEM Day</p>
Year 2	<p>DT Day: Making textile pouches Design a pouch and use running stick to make/ decorate</p> <p>New to autumn 2023</p>	<p>Kapow: Food: A balanced diet</p> <p>Learn about the food groups to understand a balanced diet to develop a healthy wrap.</p>		<p>Kapow: Mechanisms: Moving monsters.</p> <p>Explore levers, linkages and pivots. Use research to assemble a moving monster.</p>		<p>Structures: Castles year 3</p> <p>Learn key features of a castle and recognise 3D shapes within it. Use a 2D net to assemble a 3D castle.</p> <p style="text-align: right;">Granby STEM Day</p>
Year 3	<p>DT day: Electrical systems</p> <p>Electric poster</p> <p>New to autumn 2023</p> <p>Kapow: Textiles: Making a cushion Learn cross stitch and applique. Design and make a cushion.</p>			<p>Kapow: Food: eating seasonally. Learn about various fruit and vegetables – discover relationship between colour and health.</p>		<p>Kapow: Mechanical systems: Pneumatic toys.</p> <p>Explore pneumatic systems then apply understanding to make a pneumatic toy including thumbnail sketches and exploded diagrams.</p> <p style="text-align: right;">Granby STEM Day</p>
Year 4	<p>DT Day: structures - pavilions Investigate and model frame structures to create stable, decorated pavilion</p> <p>New to autumn 2023</p>	<p>Kapow: Slingshot car</p> <p>Using a range of materials, design and make a car with a working slingshot mechanism and house the mechanism using a range of nets.</p>	<p>Kapow: Food: adapting a recipe Work in groups to adapt an existing biscuit recipe, whilst considering the cost of the ingredients and other expenses against a set budget.</p>	<p>Kapow: Electrical systems: Making a torch using an electric circuit Identify the difference between electrical and electronic products. Evaluate a range of torches and their features, then develop a new functional torch design.</p>	<p>Kapow: Textiles: Fastenings Analyse and evaluate a range of existing fastenings, then devise a list of design criteria to design, generate templates and make a fabric book sleeve</p>	<p style="text-align: right;">Granby STEM Day</p>
Year 5	<p>DT Day: Electrical systems – Doodlers Design a product with a motor</p> <p>New to autumn 2023</p>	<p>Kapow: Bridges Test/ analyse various types of bridge to determine strength and stability. Explore material properties/ sources, before marking, sawing and assembling a wooden truss bridge.</p>			<p>Textiles: stuffed toys</p> <p>Design a stuffed toy and make decisions on materials, decorations and attachments (appendages), after learning how to sew a blanket stitch.</p>	<p>Kapow: Food: What could be healthier? Discover farm to fork process, understand key welfare issues for rearing cattle. Compare the nutritional value of existing sauces and develop a healthier recipe.</p> <p style="text-align: right;">Granby STEM Day</p>
Year 6	<p>DT Day: Unit TBC</p> <p>New to autumn 2023</p>	<p>Kapow: Simple mechanisms: Pop up books Create a functional four-page pop-up storybook design, using lever, sliders, layers and spacers to create paper-based mechanisms.</p>			<p>Kapow: Food: Come dine with me Develop a three-course menu focused on three key ingredients to develop the best class recipes. Explore key ingredient's farm to fork process.</p>	<p>Kapow: Textiles: Waistcoats</p> <p>Using a combination of textiles skills: fastenings, appliqué and decorative stitches, design, assemble and decorate a waistcoat for a chosen purpose.</p> <p style="text-align: right;">Granby STEM Day</p>