

Design and Technology Topic Overview

		TOPIC NAME	Main curriculum focus Design – Make - Evaluate	Cooking and nutrition
KS 1	Y1	Eat More Fruit and Veg		Identify and describe fruits and vegetables. Learn about what makes a healthy diet. Design, make and evaluate their fruit salad/smoothie.
		Moving Minibeasts	Make own sliding, lever and pivot mechanism. Explain how a sliding mechanism works. Design, make and evaluate their moving picture.	
		Stable Structures	Manipulate materials and use tools appropriately. Explore how to make materials stronger and stiffer. Design, make and evaluate a purposeful, functional product.	
	Y2	Puppets	Join two pieces of fabric using running stitch and/or over stitch.	

		<p>Use tools safely, such as needles and scissors.</p> <p>Design, make and evaluate a glove puppet.</p>	
	Vehicles	<p>Experiment using a range of materials and techniques to combine wheels, axis and chassis.</p> <p>Use a variety of materials and tools safely and effectively.</p> <p>Design, make and evaluate a vehicle.</p>	
	Perfect Pizzas		<p>Sort foods into different food groups.</p> <p>Understand eating healthy means having a balanced diet.</p> <p>Design, make and evaluate a pizza.</p>
LOWER KS 2	Y3	Storybooks	<p>Join and combine components in a variety of ways.</p> <p>Mark out and measure accurately.</p> <p>Design, make and evaluate a storybook.</p> <p>Evaluate others finished products fairly and constructively.</p>
		British Inventors	<p>Reflect on how inventions have changed their own life and the world.</p> <p>Name a British inventor and their creation.</p>

		<p>Evaluate a product's performance.</p> <p>Design a new creation to solve an everyday problem.</p>	
	Light-Up Signs	<p>Investigate how simple circuits are constructed for illuminated signage.</p> <p>Identify ways in which they can work safely while constructing their design.</p> <p>Recall how to create a simple series circuit with a light.</p> <p>Write or edit programs to control an LED.</p>	
Y4	Seasonal Stockings	<p>Use stitching for decorative purposes.</p> <p>Sew a button/bead/sequin/ribbon onto fabric accurately.</p> <p>Use a range of tools and materials safely and sensibly.</p> <p>Design, make and evaluate a Christmas stocking.</p>	
	Making Mini-Greenhouses	<p>Analyse and discuss different types of greenhouses.</p> <p>Identify factors that make a structure stable.</p> <p>Design, make and evaluate a mini-greenhouse.</p>	

			Understand importance of evaluating a finished product.	
		Seasonal Food		<p>Use a variety of techniques to bake cakes safely and hygienically.</p> <p>Follow instructions for a recipe using seasonal fruit/jam.</p> <p>Prepare a variety of healthy meals using seasonal foods.</p> <p>Explain why it is good to eat seasonal food.</p>
Y5		Building Bridges	<p>Investigate and explore the effectiveness of different beam/pillar designs.</p> <p>Build and test models to find a strong bridge design.</p> <p>Work collaboratively to produce a prototype model according to an agreed design.</p> <p>Evaluate their product according to design criteria.</p>	
		Chinese Inventions	<p>Name some significant inventors.</p> <p>Take a simple design and modify it to suit their needs.</p> <p>Choose between a variety of tools to make their product.</p>	

		Evaluate their product based on design criteria.	
	Fashion and Textiles	<p>Identify different sewing stitches and distinguish between functional and decorative sewing stitches.</p> <p>Design an item made using textiles according to design criteria.</p> <p>Draw pattern pieces, adding details such as seam allowances.</p> <p>Use simple stitches to sew hems on an item made using textiles.</p>	
Y6	Programming Pioneers	<p>Incorporate one or more different electrical components in their system.</p> <p>Develop a design brief for a product through discussion and annotated sketches.</p> <p>Suggest ways in which a given product idea might be developed and improved.</p> <p>Make prototype models to communicate their ideas.</p> <p>Explain how they learned from others and improved their own designs.</p>	
	Bird House Builders	<p>Draw 3-D diagrams and exploded diagrams.</p> <p>Design a bird house to suit a specific bird.</p>	

		<p>Know what tools, equipment and safety precautions are needed to make a bird house.</p> <p>Make amendments to plans to make construction easier.</p> <p>Understand why evaluating their design and product is important.</p> <p>Use retail ideas to promote their bird house to a prospective buyer.</p>	
	Burgers		<p>Write a recipe for a burger and choose appropriate ingredients to make burgers.</p> <p>Make informed decisions about the type of ingredients to use.</p> <p>Use cooking utensils and equipment correctly.</p> <p>Evaluate a cooking session and their own skills.</p>