



Uffington Church of England Primary School

Design Technology - Long Term Plan - 2025-2026

Cycle B – 25/26

		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	NC Aims
EYFS			KAPOW – Seasonal project: Sliding Santa chimney	KAPOW – Cooking and nutrition: Soup (keeping warm)	KAPOW – Seasonal project: Easter hanging egg decoration / Flower threading		KAPOW – Structures: Junk modelling (castles)	<p>Physical Development: Use a range of small tools, including scissors, paintbrushes and cutlery.</p> <p>Expressive Arts and Design: Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Share their creations, explaining the process they have used.</p>
KS1 Y1/Y2	<ul style="list-style-type: none"> Mechanisms Structures Textiles Cooking and nutrition (Food) Electrical systems (KS2) Digital world (KS2) 	<p>Cooking and nutrition: Smoothies Preparing foods by cutting and juicing and selecting fruits and vegetables to create a smoothie to meet a design brief.</p>		<p>Mechanisms: Fairground wheel Designing and creating their own Ferris wheels, considering how the different components fit together so that the wheels rotate and the structures stand freely. Pupils select appropriate materials and develop their cutting and joining skills</p>	<p>Structures: Baby bear's chair Using the tale of Goldilocks and the Three Bears as inspiration, children help Baby Bear by making him a brand new chair. When designing the chair, they consider his needs and what he likes and explore ways of building it so that it is strong.</p>			<ul style="list-style-type: none"> develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users critique, evaluate and test their ideas and products and the work of others <p>understand and apply the principles of nutrition and learn how to cook.</p>
KS2 Y3/Y4			<p>Structure: Pavilions Exploring pavilion structures, children learn about what they are used for and investigate how to create strong and stable structures before designing and creating their own pavilions, complete with cladding.</p>		<p>Mechanical systems: Making a slingshot car Transforming lollipop sticks, wheels, dowels and straws into a moving car. Using a glue gun to, making a launch mechanism, designing and making the body of the vehicle using nets and assembling these to the chassis.</p>		<p>Electrical systems: Torches Applying their scientific understanding of electrical circuits, children create a torch, designing and evaluating their product against set design criteria.</p>	
KS2 Y5/Y6		<p>Textiles: Waistcoats Selecting suitable fabrics, using templates, pinning, decorating and stitching to create a waistcoat for a person or purpose of their choice.</p>		<p>Structure: Playgrounds Designing and creating a model of a new playground featuring five apparatus, made from three different structures. Creating a footprint as the base, pupils visualise objects in plan view and get creative with their use of natural features.</p>		<p>Digital world: Navigating the world Programming a navigation tool to produce a multifunctional device for trekkers. Combining 3D objects to form a complete product in CAD 3D modelling software and presenting a pitch to 'sell' their product.</p>		
KS3		<p>The KS3 national curriculum for design and technology aims to ensure that all pupils:</p> <ul style="list-style-type: none"> develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users critique, evaluate and test their ideas and products and the work of others understand and apply the principles of nutrition and learn how to cook. 						