## Design Technology

Year 1	Autumn 1	Autumn 2 Mechanisms Wheels & axles	Spring 1	Spring 2 Structures Windmills	Summer 1 Cooking – Fruit and vegetables	Summer 2
		<ul> <li>To understand how wheels move.</li> <li>To identify what stops wheels from turning.</li> <li>To design a moving vehicle.</li> <li>To build a moving vehicle.</li> </ul>		<ul> <li>To include individual preferences and requirements in my design.</li> <li>To make a stable structure.</li> <li>To assemble the components of my structure.</li> <li>To evaluate my project and adapt my design.</li> </ul>	<ul> <li>To identify if a food is a fruit or a vegetable.</li> <li>To identify where plants grow and which parts we eat.</li> <li>To taste and compare fruit and vegetables         To make a fruit and vegetable smoothie.     </li> </ul>	

	Mechanisms- Fairground wheel To explore wheel mechanisms and design a Ferris wheel. To select appropriate materials. To build and test a moving wheel. To make and evaluate a structure with a rotating wheel.	Textiles- Pouches  To sew a running stitch.  To join fabrics using a running stitch.  To decorate a pouch using fabric glue or stitching.  To evaluate the pouch			Cooking- A balanced diet  To know what makes a balanced diet.  To taste test food combinations.  To design a healthy wrap.  To make a healthy wrap.
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Year 3	<ul> <li>Mechanical systems</li></ul>	Textiles Cushions  To learn how to sew cross-stitch and appliqué. To design a product and its template. To decorate fabric using appliqué and cross-stitch. To assemble and complete a cushion.	Structures Castles  To recognise how multiple shapes (2D and 3D) are combined to form a strong and stable structure To design a castle To construct 3D nets To construct and evaluate my final product
Year 4	Electrical systems Torches To learn about electrical items and how they work. To analyse and evaluate electrical products. To design a product to fit a set of specific user needs. To make and evaluate a torch.  Digital Woment Mindful Mome To evaluate exproducts. To develop de criteria. To program ar a product. To develop ide through comp design. To consider fe	ents Timer kisting esign end control eas outer-aided	Cooking Adapting a recipe To follow a baking recipe. To make and test a prototype. To design a biscuit to a given budget. To make a biscuit that meets a given design brief.

To consider feedback and evaluate.

Year 5	Electrical Systems Doodlers  To understand how motors are used in electrical products.  To investigate an existing product to determine the factors that affect the product's form and function.  To apply the findings from research to develop a unique product.  To develop a DIY kit for another individual to assemble their product.	Structures Bridges  To explore how to reinforce a beam (structure) to improve its strength.  To build a spaghetti truss bridge.  To build a wooden truss bridge.  To complete, reinforce and evaluate my truss bridge.		Cooking What could be healthier?  To understand where food comes from.  To understand the term 'healthy'.  To adapt a traditional recipe.  To complete a food product.
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	Mechanical Systems	•	•	Textiles-	
Year 6	Automata Toys			Waistcoats	
Teal 0	<ul> <li>To prepare wood for</li> </ul>			<ul> <li>To design a waistcoat.</li> </ul>	
	assembly by measuring,			<ul> <li>To mark and cut fabric</li> </ul>	
	marking and cutting			according to a design.	
	each piece.			<ul> <li>To assemble a waistcoat.</li> </ul>	
	• To assemble the			<ul> <li>To decorate your</li> </ul>	
	automata frame			waistcoat.	
	components and				
	supports with the help				
	of an exploded				
	diagram.				
	<ul> <li>To explore the</li> </ul>				
	relationship between				
	cam profiles and				
	follower movement to				
	inform a design				
	decision.				

To apply the	housing		
and finishing	; touches to		
the automat	a frame.		