

George Fentham
Whole School Curriculum Map
Design and Technology

Cooking and nutrition		Structures		Mechanisms		Textiles		CAD		Electrical systems/Computer control		
Design and Technology	Autumn				Spring				Summer			
	1		2		1		2		1		2	
Nursery	<u>Autumn/Harvest</u> Purpose: To investigate different food.		<u>People who help up</u> Purpose: To design and make models using recycled materials.		<u>Once upon a time</u> Purpose: To design and construct a house.		<u>Pirates</u> Purpose: To design and construct a pirate ship.		<u>Growth and change</u>		<u>Amazing animals</u> Purpose: To design and make models.	
	Cooking and nutrition		Structures		Structures and construction		Structures and construction				Structures	
Reception	<u>Marvellous me!</u> <u>Intended user:</u> Myself and my family <u>Purpose:</u> To select a variety of fruit to make a fruit kebab <u>Purpose:</u> To know how to keep healthy and why it is important to keep healthy		<u>Big Roars! Here comes the dinosaurs!</u> <u>Intended user:</u> Themselves <u>Purpose:</u> To make a moving dinosaur puppet using split pins.		<u>Zoom rocker Zoom!</u> <u>Intended user:</u> Themselves (imaginary) <u>Purpose:</u> To design and make a rocket, focusing on ways to attach different materials. <u>Purpose:</u> To design and make a rocket using appropriate construction materials (small and large scale modelling). <u>Intended user:</u> Themselves <u>Purpose:</u> To make Chinese noodles using the correct equipment.		<u>In my garden</u> <u>Intended user:</u> Themselves and their family <u>Purpose:</u> To make Easter nests by following instructions. <u>Purpose:</u> Design a mini beast. Computer aided design. Ipad		<u>Oh I do like to be beside the seaside</u> <u>Intended user:</u> Noah (imaginary) <u>Purpose:</u> To design and make a large scale model of an ark. <u>Intended user:</u> Children in another year group. <u>Purpose:</u> To use a computer program to design and make a sea creature.		<u>Let's explore. Wild animals</u> <u>Intended user:</u> Author of a book. <u>Purpose:</u> To design a crate for a zoo animal using recyclable material	
	Structures and construction		Mechanisms		Structure s/construction	Cooking and nutrition	Cooking and nutrition		Structure s	Simple CAD	Simple CAD	

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Year 1		<p style="text-align: center;"><u>Can You See Me?</u> Intended user: Teddy (imaginary) Purpose: To keep teddy safe by designing a waistcoat. Context: Local environment, fictitious character</p>		<p style="text-align: center;"><u>Moving African Animals</u> Intended user: A child in the Reception class Purpose: To make a moving picture with a moving animal to show a younger child the animals and landscapes in Africa. Context: School</p>		<p style="text-align: center;"><u>Perfect Pizzas</u> Intended user: Themselves and a friend Purpose: To make a balanced healthy pizza for a party Context: Industry, local community</p>
		<u>Textiles</u>		<u>Mechanisms - levers and sliders</u>		<u>Cooking and nutrition</u>
Year 2		<p style="text-align: center;"><u>A traditional chair</u> Intended user: A fairy-tale themed cuddly toy character Purpose: To design a strong, suitably sized chair for a particular cuddly toy character to sit in. Context: Home, story-based</p>	<p style="text-align: center;"><u>Moving Vehicles</u> Intended user: Children buying merchandise for the story 'Man on the moon' Purpose: To design a moon buggy as a prototype for merchandise linked to the story. Context: Industry, story-based</p>			<p style="text-align: center;"><u>Bread - The Journey from Field to Plate</u> Intended user: Lighthouse Keeper and themselves Purpose: To design a sweet bread for the Lighthouse Keeper's lunch. Context: Wider community/story-based Key events & individuals: Warbutons</p>
		<u>Structures</u>	<u>Mechanisms</u>	<u>CAD</u>		<u>Cooking and nutrition</u>

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Year 3		<p><u>Sandwich Bag</u> Intended user: Paddington Bear Purpose: To design and make a sandwich bag to hold a marmalade sandwich. Context: Story-based</p>		<p><u>Packaging</u> Intended user: Child or adult at Easter Purpose: To design an attractive package to protect a fragile object. Context: Industry Key events & individuals: Alfred Fielding and Marc Chavanne (inventor of bubble wrap)</p>		<p><u>Sandwich snacks</u> Intended user: Another child within the class Purpose: To design a healthy sandwich based on a user's needs/requirements. Context: School</p>
		<u>Textiles</u>		<u>Structures</u>	<u>CAD</u>	<u>Cooking and nutrition</u>
Year 4		<p><u>Light it up</u> Intended user: Family member Purpose: To make a card with a light up feature Context: Home, local community</p>		<p><u>Chocolate</u> Intended user: Children in Year 6 Purpose: To make a chocolate lollypop for a specific user Context: School, home Key events & individuals: Cadburys family (how chocolate is produced and made)</p>		<p><u>Moving pictures</u> Intended user: Publisher Purpose: To make a storyboard with moving parts Context: Industry, story-based</p>
		<u>Electrical systems/control</u>		<u>Cooking and nutrition</u>		<u>Mechanisms - levers and linkages</u>

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Year 5		<p style="text-align: center;"><u>Biscuits</u></p> <p>Intended user: For themselves and family members Purpose: To design healthy Christmas biscuits Context: School, home Key events & individuals: Mary Berry, Jamie Oliver, Delia Smith</p>		<p style="text-align: center;"><u>Beat the flood</u></p> <p>Intended user: A family on a fictitious island community Purpose: To design a prototype home to withstand a flood. Context: Wider environment (global)</p>		<p style="text-align: center;"><u>Moving toys</u></p> <p>Intended user: For a child or adult Purpose: To design a moving toy using a cam system to attract people into a library. Context: Local community/industry Key events & individuals: Leonardo da Vinci inventions</p>
		<u>Cooking and nutrition</u>		<u>Structures - Shell and frame/waterproofing</u>		<u>Mechanisms - Cams</u>
Year 6		<p style="text-align: center;"><u>Ferris Wheel</u></p> <p>Intended user: For a specific age range Purpose: To design and make a rotating K'Nex Ferris Wheel that uses computer control Context: School, industry Key events & individuals: George Washington Gale Jr</p>		<p style="text-align: center;"><u>Indian curry</u></p> <p>Intended user: For family and local community Purpose: To design and make a vegetable Indian curry Context: Home, local community Key events & individuals: Various chefs such as Nisha Katona, Cyrus Todiwala, Vineet Bhatia</p>		<p style="text-align: center;"><u>Cushions</u></p> <p>Intended user: For themselves Purpose: To design and make a cushion. Context: Home</p>
		<u>Computer control</u>	<u>Mechanisms - gears (Construction using Knex)</u>		<u>Cooking and nutrition</u>	