

The Whitchurch CE Federation

The Inquisitive Me

Subject Overview Design Technology

Year Group	Autumn Term		Spring Term		Summer Term	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
1	Key Concepts	Key Concepts To master practical skills To design, make, evaluate and improve	Key Concepts To master practical skills To design, make, evaluate and improve	Key Concepts To master practical skills To design, make, evaluate and improve To take inspiration from designs through history.	Key Concepts	Key Concepts
	Breadth	Breadth FREE STANDING STRUCTURE – Making a cage for Nibbles	Breadth FOOD – preparing fruit and vegetables Design and make fruit salad based on 'Handa's Surprise' by Eileen Browne	Breadth MECHANISMS– sliders and levers Make class information book in the style of 'The Curious Case of the Missing Mammoth'	Breadth	Breadth

2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Key Concepts To master practical skills To design, make, evaluate and improve	Key Concepts	Key Concepts To master practical skills To design, make, evaluate and improve To take inspiration from designs through history.	Key Concepts	Key Concepts To master practical skills To design, make, evaluate and improve	Key Concepts
	Breadth TEXTILES Templates & Joining Techniques Design and make a Troll using different joining techniques	Breadth	Breadth MECHANISMS – wheels and axles Designing and making a Dragon Machine	Breadth	Breadth FOOD – Preparing a vegetable soup for Little Red to take into the Woods.	Breadth
3	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Key Concepts Master practical skills Materials Construction	Key Concepts Master practical skills Food Design, make, evaluate and improve	Key Concepts	Key Concepts	Key Concepts	Key Concepts Master practical skills Textiles Design, make, evaluate and improve To take inspiration from designs through history

	Breadth STRUCTURES: Research, design and make a desk tidy.	Breadth FOOD: Research, design and make a range of foods suitable for a healthy diet especially for children of their age.	Breadth	Breadth	Breadth	Breadth TEXTILES: Research designer handbag brands for inspiration to create a textile bag, by joining textiles with appropriate stitching, then selecting the most appropriate techniques to decorate textiles.
--	--	--	----------------	----------------	----------------	---

4	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Key Concepts 	Key Concepts Master practical skills Mechanics Design, make, evaluate and improve Take inspiration from design throughout history	Key Concepts 	Key Concepts 	Key Concepts Master practical skills Food Design, make, evaluate and improve	Key Concepts Master practical skills Electricals and electronics
	Breadth	Breadth MECHANICS: Make toys /games /machines that could be found in a circus such as pop up toys or	Breadth	Breadth	Breadth FOOD: Taste fruits from around the world and design and make 2 fruit salads.	Breadth ELECTRICAL SYSTEMS: Investigate torches then design and make a suitable torch for

		popcorn machines.				caving.
5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Key Concepts	Key Concepts	Key Concepts Master practical skills Materials Design, make, evaluate and improve	Key Concepts Master practical skills Mechanics Design, make, evaluate and improve	Key Concepts	Key Concepts Master practical skills Food
	Breadth	Breadth	Breadth STRUCTURES: Design and make a small-scale bird hide using simple joining methods to create frameworks using art straws, dowel and wood.	Breadth MECHANISMS: Use cams to make a space themed toy or model to explain an aspect of space.	Breadth	Breadth FOOD: Link visit to Sir John Talbot High School to complete a mini-topic, design and cook a meal.
6	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Key Concepts	Key Concepts	Key Concepts Master practical skills Textiles Design, make, evaluate and improve	Key Concepts	Key Concepts Master practical skills Electronics	Key Concepts Master practical skills Mechanics Design, make, evaluate and improve
	Breadth	Breadth ELECTRONICS:	Breadth TEXTILES:	Breadth	Breadth MECHANISMS:	Breadth

		Make a tiger alarm as an early warning system, using circuits, switches, conductive materials. Use of computer aided design for programming circuits.	Design and make a prototype slipper.		Make a prototype fairground ride for the summer fair.	
--	--	---	--------------------------------------	--	---	--