

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

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

	<p><b>Breadth</b></p> <p>Use and combine cuboids to make model house</p> <p><i>Projects on a Page: Shell structures</i></p>	<p><b>Breadth</b></p> <p>Research, design and make a range of foods suitable for a healthy diet especially for children of their age.</p> <p><i>Projects on a Page: Healthy and varied diet</i></p>	<p><b>Breadth</b></p>	<p><b>Breadth</b></p>	<p><b>Breadth</b></p>	<p><b>Breadth</b></p> <p>Create a textile bag with a giraffe design by joining textiles with appropriate stitching and Selecting the most appropriate techniques to decorate textiles.</p> <p><i>Projects on a Page: 2-D shape to 3-D product</i></p>
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4	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
	<b>Key Concepts</b>	<p><b>Key Concepts</b></p> <p>Master practical skills Mechanics</p> <p>Design, make, evaluate and improve</p> <p>Take inspiration from design throughout history</p>	<p><b>Key Concepts</b></p> <p>Master practical skills Mechanics</p>	<p><b>Key Concepts</b></p>	<p><b>Key Concepts</b></p> <p>Master practical skills Food</p> <p>Design, make, evaluate and improve</p>	<p><b>Key Concepts</b></p> <p>Master practical skills Electricals and electronics</p>
	<b>Breadth</b>	<p><b>Breadth</b></p> <p>Make toys /games /machines that could be found in a circus such as pop up toys or popcorn machines.</p>	<p><b>Breadth</b></p> <p>Levers and linkages used as a way of explaining volcanic eruptions.</p> <p><i>Projects on a Page:</i></p>	<p><b>Breadth</b></p>	<p><b>Breadth</b></p> <p>Taste fruits from around the world and design and make 2 fruit salads.</p> <p><i>Projects on a Page:</i></p>	<p><b>Breadth</b></p> <p>Investigate torches then design and make a suitable torch for caving.</p> <p><i>Projects on a Page: Simple circuits and</i></p>

		<i>Projects on a Page: Pneumatics</i>	<i>Levers and linkages</i>		<i>Healthy and varied diet</i>	switches
5	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
	<b>Key Concepts</b>	<b>Key Concepts</b>	<b>Key Concepts</b> Master practical skills Materials  Design, make, evaluate and improve	<b>Key Concepts</b> Master practical skills Mechanics  Design, make, evaluate and improve	<b>Key Concepts</b>	<b>Key Concepts</b> Master practical skills Food
	<b>Breadth</b>	<b>Breadth</b>	<b>Breadth</b> Design and build a Viking long boat  Projects on a Page: Frame structures	<b>Breadth</b> Use cams to make a space themed toy or model to explain an aspect of space.  <i>Projects on a page: Cams</i>	<b>Breadth</b>	<b>Breadth</b> Link visit to Sir John Talbot High School to complete a mini-topic, design and cook a meal.  <i>Projects on a Page: Celebrating culture and seasonality</i>
6	<b>Autumn 1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
	<b>Key Concepts</b>	<b>Key Concepts</b>	<b>Key Concepts</b> Master practical skills Textiles  Design, make, evaluate and improve	<b>Key Concepts</b>	<b>Key Concepts</b> Master practical skills Electronics	<b>Key Concepts</b> Master practical skills Mechanics  Design, make, evaluate and improve
	<b>Breadth</b>	<b>Breadth</b>	<b>Breadth</b> Make a Victorian item	<b>Breadth</b>	<b>Breadth</b> Make a lamp that can	<b>Breadth</b> Make a trebuchet –

			<p>of clothing – sewing / stitching, cutting material, closing and opening detail – buttons and press studs.</p> <p><i>Projects on a Page: Using computer-aided design (CAD) in textiles</i></p>		<p>be used underwater – use of switches</p> <p><i>Projects on a Page: More complex switches and circuits</i></p>	<p>pulleys</p> <p>Projects on a Page: Pulleys or Gears</p>
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