



**DT Curriculum Progression**

		Year 1			Year 2		
Topic		Autumn 2 – Carnival of the animals	Spring 2 - Fee Fi Fo Fum	Summer 2 – Whole School Topic	Autumn 2 - Hearts and Lanterns	Spring 2 - Disaster Strikes	Summer 1 - A Journey to Discovery
Outcome/Product		Lever and slide class animal book <a href="https://www.planbee.com/moving-pictures-the-complete-series">https://www.planbee.com/moving-pictures-the-complete-series</a>	Puppets out of card (story characters)	Food Technology – Fruit skewers and salad	Design and Technology - Running stitch to create a pin badge	Emergency services vehicle - wheels and axles	To make a strong structure - house Research different houses around the world <a href="https://www.planbee.com/homes-the-complete-series">https://www.planbee.com/homes-the-complete-series</a>
N C k n o w l e d g e / u n d e r s t a n d i n g	Design	<ul style="list-style-type: none"> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria</li> </ul>	<ul style="list-style-type: none"> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups.</li> </ul>	<ul style="list-style-type: none"> <li>Generate, develop, model and communicate their ideas through talking.</li> <li>Design appealing products for themselves</li> </ul>	<ul style="list-style-type: none"> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria,</li> <li>Generate, develop, model and communicate their ideas through talking and templates.</li> </ul>	<ul style="list-style-type: none"> <li>Communicating their ideas through talking and drawing.</li> </ul>	<ul style="list-style-type: none"> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology (<b>researching other houses around the world</b>).</li> </ul>
	Make	<ul style="list-style-type: none"> <li>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, joining and finishing]</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting,</li> <li>Select from and use a wide range of ingredients, according to their characteristics.</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a range of tools and equipment to perform practical tasks, example, cutting.</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a range of equipment to perform practical tasks [for example joining and finishing]</li> <li>Select from and use a wide range of materials and components, including construction materials.</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>Select from and use a wide range of materials and components, including construction materials and textiles according to their characteristics.</li> </ul>
	Evaluate	<ul style="list-style-type: none"> <li>Evaluate their ideas and products against design criteria</li> </ul>	<ul style="list-style-type: none"> <li>Explore and evaluate a range of existing products.</li> <li>Evaluate their ideas and products against design criteria</li> </ul>	<ul style="list-style-type: none"> <li>Explore and evaluate a range of existing products</li> <li>Evaluate their ideas and products against design criteria</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate their ideas and products against design criteria</li> </ul>	<ul style="list-style-type: none"> <li>Explore and evaluate a range of existing products</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate their ideas and products against design criteria</li> </ul>
	Technical knowledge	<ul style="list-style-type: none"> <li>Explore and use mechanisms [for example, levers and sliders in their products.</li> </ul>	<ul style="list-style-type: none"> <li>Build structures, exploring how they can be made stronger, stiffer and more stable (make a mockup using paper and discuss why this material isn't suitable for a puppet)</li> </ul>	<ul style="list-style-type: none"> <li>Understand where food comes from.</li> <li>Use the basic principles of a healthy and varied diet to prepare dishes</li> </ul>	<ul style="list-style-type: none"> <li>Exploring how they can be made stronger, stiffer and more stable.</li> </ul>	<ul style="list-style-type: none"> <li>Explore and use mechanisms [for example, wheels and axles], in their products.</li> </ul>	<ul style="list-style-type: none"> <li>Build structures, exploring how they can be made stronger, stiffer and more stable.</li> </ul>



### DT Curriculum Progression

		Year 3			Year 4		
Topic		Autumn 1 - Supermarket Sweep	Spring 1 - Settle Down	Summer 1 - Dig Deep	Autumn 2 - Journey Over Europe	Spring 1 - Battle Stations	Summer 1 - Playing Cat and Mouse
Outcome/Product		Savoury Tart	Pneumatic toy - Anglo Saxon Monster	Photo Frame	Mini GreenHouse  Plant some cress/seeds in the greenhouse and observe over time.	Tapestry	Light up Box - Write an equality slogan
NC knowledge /understanding	Design	<ul style="list-style-type: none"> <li>Understand and apply the principles of a healthy and varied diet</li> </ul>	<ul style="list-style-type: none"> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes,</li> </ul>	<ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> </ul>	<ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes,</li> </ul>	<ul style="list-style-type: none"> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and computer-aided design.</li> </ul>	<ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches,</li> </ul>
	Make:	<ul style="list-style-type: none"> <li>Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>Select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment [for example, cutting, shaping, joining and finishing], accurately</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> </ul>
	Evaluate	<ul style="list-style-type: none"> <li>Evaluate their ideas based on the principles of a healthy diet.</li> <li>Understand how key events and individuals in design and technology have helped shape the world</li> <li>investigate and analyse a range of existing products</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>Understand how key events and individuals in design and technology have helped shape the world (Lonnie Johnson, creator of Nerf Water)</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> </ul>	<ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>Understand how key events and individuals in design and technology have helped shape the world (look at Kew Garden and Eden Project)</li> </ul>	<ul style="list-style-type: none"> <li>Understand how key events and individuals in design and technology have helped shape the world</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> </ul>
	Technical knowledge			<ul style="list-style-type: none"> <li>Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> </ul>	<ul style="list-style-type: none"> <li>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> </ul>		



### DT Curriculum Progression

		Year 5			Year 6		
Topic		Autumn 1 - We're the kids in America	Spring 2 - Oh I do like to be beside the seaside	Summer 2 - Whole School Topic	Autumn 2 - A Class Act	Spring 2 - Peace at Last	Summer 2 - Whole School Topic
Outcome/Product		Moving toys (similar to a Jack in the box, popping up and down) Focus on cams system and a lever.	Making a pulley system	Savoury dish- Entrepreneurs - Dragons Den	Make a wooden chair with a cushion	Identity bag	Fairground rides
NC Knowledge/ Understanding	Design	<ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces</li> </ul>	<ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of innovative, functional product</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes and pattern pieces</li> </ul>	<ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> </ul>	<ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes and pattern pieces.</li> </ul>	<ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces.</li> </ul>	<ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> </ul>
	Make	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</li> </ul>	<ul style="list-style-type: none"> <li>Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>Accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</li> </ul>
	Evaluate	<ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> </ul>	<ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products evaluate their ideas and products against their own design criteria and</li> </ul>	<ul style="list-style-type: none"> <li>understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed (links to science and geography)</li> </ul>	<ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to</li> </ul>	<ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the</li> </ul>	<ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others</li> </ul>
			<ul style="list-style-type: none"> <li>consider the views of others to improve their work</li> <li>Understand how key events and individuals in design and technology have helped shape the world (Archimedes created the pulley system)</li> </ul>	<ul style="list-style-type: none"> <li>Understand how key events and individuals in design and technology have helped shape the world</li> </ul>	<ul style="list-style-type: none"> <li>improve their work</li> </ul>	<ul style="list-style-type: none"> <li>views of others to improve their work</li> </ul>	<ul style="list-style-type: none"> <li>to improve their work</li> </ul>