

Design Technology Progression of Skills

<u>Strand</u>	<u>EYFS</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
Everyday products	<ul style="list-style-type: none"> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; 	<ul style="list-style-type: none"> Name and explore a range of everyday products and describe how they are used. 	<ul style="list-style-type: none"> Explain how an everyday product could be improved. 	<ul style="list-style-type: none"> Explain how an existing product benefits the user. 	<ul style="list-style-type: none"> Investigate and identify the design features of a familiar product. 	<ul style="list-style-type: none"> Explain how the design of a product has been influenced by the culture or society in which it was designed or made. 	
	All About Me	Moon Zoom	Towers, Tunnels and Turrets	Scrumdiddlyumptious	Blue Abys	Stargazers	
Electricity			<ul style="list-style-type: none"> Create an operational, simple series circuit. A series circuit is made up of an energy source, such as a battery or cell, wires and a bulb. 		<ul style="list-style-type: none"> Incorporate circuits that use a variety of components into models or products. 		
			Land Ahoy		Blue Abys		
Staying Safe			<ul style="list-style-type: none"> Work safely and hygienically in construction and cooking activities. 	<ul style="list-style-type: none"> Use appliances safely with adult supervision. 	<ul style="list-style-type: none"> Work safely with everyday chemical products under supervision, such as disinfectant hand wash and surface cleaning spray. 		

			Muck Mess and Mixtures	Scrumdiddlyumptious	Potions		
Mechanisms and Movement		<ul style="list-style-type: none"> Use wheels and axles to make a simple moving model. 	<ul style="list-style-type: none"> Use a range of mechanisms (levers, sliders, wheels and axles) in models or products. 	<ul style="list-style-type: none"> Use a range of mechanisms (levers, sliders, wheels and axles) in models or products. A mechanism is a device that takes one type of motion or force and produces a different one. 		<ul style="list-style-type: none"> Use mechanical systems in their products, such as pneumatics and hydraulics. 	<ul style="list-style-type: none"> Explain and use mechanical systems in their products to meet a design brief.
		Moon Zoom	Land Ahoy	Flow		Scream Machine	Gallery Rebels
Generation of ideas	<ul style="list-style-type: none"> Make use of props and materials when role playing characters in narratives and stories 	<ul style="list-style-type: none"> Create a design to meet simple design criteria. 	<ul style="list-style-type: none"> Generate and communicate their ideas through a range of different methods. 	<ul style="list-style-type: none"> Develop design criteria to inform a design. 	<ul style="list-style-type: none"> Use annotated sketches and exploded diagrams to test and communicate their ideas. 	<ul style="list-style-type: none"> Use pattern pieces and computer-aided design packages to design a product. 	<ul style="list-style-type: none"> Develop design criteria for a functional and appealing product that is fit for purpose,
	All About Me Around the World Creatures Great and Small Julia Donaldson Fairy Tales Under the Sea	Dinosaur Planet Moon Zoom	Towers, Tunnels and Turrets	Tribal Tales	Traders and Raiders	Stargazers	Hola Mexico

Structures		<ul style="list-style-type: none"> Construct simple structures, models or other products using a range of materials. 	<ul style="list-style-type: none"> Explore how a structure can be made stronger, stiffer and more stable. 	<ul style="list-style-type: none"> Create shell or frame structures using diagonal struts to strengthen them. 	<ul style="list-style-type: none"> Prototype shell and frame structures, showing awareness of how to strengthen, stiffen and reinforce them. 	<ul style="list-style-type: none"> Build a framework using a range of materials to support mechanisms. 	<ul style="list-style-type: none"> Select the most appropriate materials and frameworks for different structures, explaining what makes them strong.
		Bright Lights, Big City	Towers, Tunnels and Turrets	Tremors	Traders and Raiders	Scream Machine	A Child's War
Investigations		<ul style="list-style-type: none"> Select the appropriate tool for a simple practical task. 	<ul style="list-style-type: none"> Select the appropriate tool for a task and explain their choice. 	<ul style="list-style-type: none"> Use tools safely for cutting and joining materials and components. 	<ul style="list-style-type: none"> Select, name and use tools with adult supervision 	<ul style="list-style-type: none"> Name and select increasingly appropriate tools for a task and use them safely. 	<ul style="list-style-type: none"> Select appropriate tools for a task and use them safely and precisely.
		Rio di Vida	Beachcombers	Gods and Mortals	Potions	Beast Creator	Hola Mexico
Evaluations	<ul style="list-style-type: none"> Share their creations, explaining the process they have used; 	<ul style="list-style-type: none"> Talk about their own and each other's work, identifying strengths or weaknesses and offering support 	<ul style="list-style-type: none"> Explain how closely their finished products meet their design criteria and say what they could do better in the future. 	<ul style="list-style-type: none"> Suggest improvements to their products and describe how to implement them, beginning to take the views of others into account. 	<ul style="list-style-type: none"> Identify what has worked well and what aspects of their products could be improved, acting on their own suggestions and those of others when making improvements. 	<ul style="list-style-type: none"> Test and evaluate products against a detailed design specification and make adaptations as they develop the product. 	<ul style="list-style-type: none"> Demonstrate modifications made to a product as a result of ongoing evaluation by themselves and to others.
	All About Me Around the World Creatures Great and Small	Dinosaur Planet	Wriggle and Crawl	Scrumdiddlyumptious	I am Warrior	Stargazers	Hola Mexico

	Julia Donaldson Fairy Tales Under the Sea						
Materials for Purpose	<ul style="list-style-type: none"> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; 	<ul style="list-style-type: none"> Select and use a range of materials, beginning to explain their choices. 	<ul style="list-style-type: none"> Choose appropriate components and materials and suggest ways of manipulating them to achieve the desired effect. 	<ul style="list-style-type: none"> Plan which materials will be needed for a task and explain why. 	<ul style="list-style-type: none"> Design and make either a shield for a Celtic warrior or a scutum (shield) for a Roman soldier. 	<ul style="list-style-type: none"> Select and combine materials with precision. Materials should be cut and combined with precision. 	<ul style="list-style-type: none"> Choose the best materials for a task, showing an understanding of their working characteristics.
	All About Me Around the World Creatures Great and Small	Memory Box	Street Detectives	Gods and Mortals	I am Warrior	Pharaohs	Frozen Kingdom
Food Preparation and Cooking	<ul style="list-style-type: none"> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; 	<ul style="list-style-type: none"> Measure and weigh food items using non-standard measures, such as spoons and cups. 	<ul style="list-style-type: none"> Prepare ingredients by peeling, grating, chopping and slicing. Some ingredients need to be prepared before they can be cooked or eaten. 	<ul style="list-style-type: none"> Prepare and cook a simple savoury dish. Preparation techniques for savoury dishes include peeling, chopping, dicing, grating, mixing and skinning. 	<ul style="list-style-type: none"> Identify and use a range of cooking techniques to prepare a simple meal. 	<ul style="list-style-type: none"> Use an increasing range of preparation and cooking techniques to cook a sweet or savoury dish. 	<ul style="list-style-type: none"> Follow a recipe that requires a variety of techniques and source the necessary ingredients independently.
	Fairy Tales Julia Donaldson	Rio di Vida	Wriggle and Crawl	Scrumdiddlyumptious	I am Warrior	Scream Machine	Hola Mexico
Nutrition		<ul style="list-style-type: none"> Select healthy ingredients for a fruit or vegetable salad. 	<ul style="list-style-type: none"> Describe the types of food needed for a healthy and varied diet and apply the principles to make a simple, healthy meal. 	<ul style="list-style-type: none"> Identify the main food groups (carbohydrates, protein, dairy, fruits and vegetables, fats and sugars). 	<ul style="list-style-type: none"> Design a healthy snack or packed lunch and explain why it is healthy. 		<ul style="list-style-type: none"> Plan a healthy weekly diet, justifying why each meal contributes towards a balanced diet.

		Enchanted Woodland	Muck Mess and Mixtures	Scrumdiddlyumptious	Bottoms, Burps and Bile		Hola Mexico
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