

Design & Technology Long Term Plan (2023-2024)

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nur	<p>ILP: Me & My Community</p> <p>Children use construction kits to create wheels and axles.</p>	<p>ILP: Once Upon a Time – Sparkle & Shine</p> <p>Work collaboratively to create structures using various materials. Share creations and talk about the resources, tools and techniques used. -explore existing products to make puppet characters. Introduction to seasonal food with an adult to follow a simple recipe.</p>	<p>ILP: Starry Night</p> <p>Create cuddly pets using textiles. Follow pictorial recipe to bake a cake / make a winter soup.</p>	<p>ILP: Dangerous Dinosaurs – Puddles & Rainbows</p> <p>Build on designing making skills to create rain makers.</p>	<p>ILP: Sunshine & Sunflowers – Shadows & Reflections</p> <p>Explore existing products to explore design for sun hats and crop protectors. Test, adapt and refine designs when making sun catchers.</p>	<p>ILP: Big Wide World - Splash</p> <p>Create vehicles using a range of resources; develop experience of following recipes.</p> <p>Consolidate experience and understanding of following recipes and create ice lollies.</p>
Rec	<p>ILP: Let's Explore</p> <p>Create simple structures using various resources and construction kits.</p>	<p>ILP: Marvellous Machines</p> <p>Explore products that need electricity to make them work. Develop understanding of the design process as they construct models and are supported to adapt and refine their work</p>	<p>ILP: What Happens When We Go to Sleep</p> <p>Explore painting by mixing tints and shades, using range of tools, brushes, toothbrushes, straws and spray bottles to create night -sky paintings. Making seasonal foods. Learning about Hubble telescope - making binoculars</p>	<p>ILP: Ready Steady Grow!</p> <p>Explore sources of food. Develop understanding of recipes and create healthy recipes.</p>	<p>ILP: Animal Safari Pets & vets</p> <p>Use a range of natural materials, tools, water and small world animals to recreate animal homes.</p>	<p>ILP: On the Beach</p> <p>Create an under the sea mural. Use everyday materials to make a tube which creates sounds of the waves.</p>
Year 1	<p>ILP: The Mysterious Woodlands</p>	<p>ILP: Dinosaur Planet</p> <p>Designing and making Pre-historic landscapes Sockasaurus Rex</p>	<p>ILP: Moon Zoom</p> <p>Design and make space-themed vehicles;</p>	<p>ILP: Bright Lights, Big City</p> <p>Exploring mechanisms;</p>	<p>ILP: Memory Box</p> <p>Making picnic foods; Celebration cards; Making a memory box</p>	<p>ILP: Splendid Skies</p> <p>Companion Project: Chop, Slice & Mash</p>

	<p>Building structures: Build a den for a woodland animal</p> <p>Making party food: Make tiny treats for a woodland tea party</p>	Dinosaur shaped biscuits & sandwiches	Evaluating toys; Using mechanisms.	<p>Constructing moving models; Understanding where food comes from; Design and make souvenirs; Models of London landmarks</p> <p>Ramadan D&T</p>		
Year 2	<p>ILP: Bounce Creating balls from clay; balloon powered cars; bouncy balls</p>	<p>ILP: Wriggle & Crawl Origins of food; Selecting natural materials</p>	<p>ILP: Muck, Mess & Mixtures Making models of towers, bridges and tunnels</p>	<p>ILP: Towers, Tunnels & Turrets Selecting tools and materials; Baking; Sign making; Designing buildings Ramadan D&T</p>	<p>ILP: Street Detectives Cut, Stitch & Join</p>	<p>ILP: The Scented Garden Making fragrant products</p>
Year 3	<p>ILP: Predator! Selecting and using materials (collage and textiles): make a fabric collage of a predator</p>	<p>ILP: Scrumdiddlyumptious! Cooking and nutrition: Bread tasting, design & bake your own bread</p>	<p>ILP: Mighty Metals Product evaluation; Using research to inform design; Selecting materials; Making vehicles; Using electrical circuits</p>	<p>ILP: Tribal Tales Tool design and making; Building structures: Design & make an ancient hunting tool. Design & make a woven basket</p>	<p>ILP: Flow Mechanical systems; Structures: Design & make your own hydro-powered water wheel</p>	<p>ILP: Tremors Structures: create a 3D model volcano</p>
Year 4	<p>ILP: Traders and Raiders Jewellery and weapon making; Models of Anglo-</p>	<p>ILP: Digest This! Healthy foods; Textiles: Read nutrition labels, replace sugary snacks with healthier snacks;</p>	<p>ILP: Marvellous Medicine Product development: Make chocolate hearts</p>	<p>ILP: Misty Mountain Sierra Evaluating & Reflecting: Make 3D mountain models. Review</p>	<p>ILP: Blue Abyss Submarine design; Working models using plastic bottles & other recycled materials</p>	<p>ILP: Road Trip USA! Preparing US dishes; Model making; Totem pole design</p>

	Saxon homes; Clay rune stones	make wearable digestive systems		them, reflect on their accuracy and scale.		
Year 5	<p>ILP: Scream Machine</p> <p>Ride design; Programming models; Mechanical systems; Working models; Evaluation; Make your own fairground ride</p>	<p>ILP: Stargazers</p> <p>Selecting materials; Design research; Structures; Evaluation: Make a space rocket, model of the solar system</p>	<p>ILP: Alchemy Island</p> <p>Simple copper circuit building</p>	<p>ILP: Ground-breaking Greeks</p> <p>Architecture: Architectural style and technology design a building with specific features</p>	<p>ILP: Allotment</p> <p>Eat the seasons: Cooking and nutrition: make soup. Making planters from recycled material. Making structures for growing plants, make a propagator.</p>	<p>ILP: Time Traveller</p> <p>Selecting materials: Design and create your own clock</p>
Year 6	<p>ILP: Blood Heart</p> <p>Selecting tools and equipment; Healthy recipes; Working models: make a giant heart model</p>	<p>ILP: A Child's War</p> <p>Following recipes; Make wartime popular foods like jams & pickles. Building structures: construct an Anderson Shelter</p>	<p>ILP: Frozen Kingdom</p> <p>Selecting materials: Building an igloo</p>	<p>ILP: Tomorrow's World</p> <p>Key individuals in design and technology; Assistive technologies; Programming, monitoring and controlling products; Website header design; Product design</p>	<p>ILP: Revolution</p> <p>Victorian homecraft, sewing, cooking, woodwork. Victorian times model buildings using recycled materials.</p>	<p>ILP: ID</p> <p>Using tools; Design; Make a 3D model of your thumbprint. Fashion and clothing, design & make your own clothing using technical approaches including stitching, bonding and appliqué methods.</p>