



## Adlington St Paul's Long Term D&T Plan



Year group	Autumn 1		Autumn 2			Spring 1	Spring 2	Summer 1		Summer 2
Reception Topic	Me and My Community		Once Upon A Time			Starry Night Driver: Understanding the World	Dangerous Dinosaurs Driver: Understanding the World	Sunshine and Sunflowers Driver: Understanding the World		Big Wide World Driver: Understanding the World
	Frame It	Emergency Vehicles	Make a mask	Building Bridges	Royal Workshop	Make a Cuddle Pet		Crop Protectors	Sun Hats	Animal Masks
Skills	Cut, tear, fold and stick a range of papers and fabrics.	Explore, build and play with a range of resources and construction kits with wheels and axles.	Cut, tear, fold and stick a range of papers and fabrics.	Construct simple structures and models using a range of materials	Create collaboratively, share ideas and use a variety of resources to make products inspired by existing products, stories or their own ideas, interests or experiences.	Select appropriate materials when constructing and making.		Explore significant products	Create collaboratively, share ideas and use a variety of resources to make products inspired by existing products, stories or their own ideas, interests or experiences.	Construct simple structures and models using a range of materials
Final Product	Make a picture frame	Build a vehicle	Make a fairytale mask	Make a bridge	Make swords, shields and jewellery	Make a sock puppet		Make a CD mobile	Make a sun hat	Create an animal mask
Mini Project	Exploring Autumn		Sparkle and Shine			Winter Wonderland	Puddles and Rainbows	Shadows and Reflections		Splash!
	Autumn Playdough		Bright Lights				Rainmakers			Floating and Sinking
Skills	Manipulate malleable materials into a variety of shapes and forms using their hands and other simple tools.		Cut, tear, fold and stick a range of papers and fabrics.				Create collaboratively, share ideas and use a variety of resources to make products inspired by existing products,			Create collaboratively, share ideas and use a variety of resources to make products inspired by existing products,

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				stories or their own ideas, interests or experiences.		stories or their own ideas, interests or experiences.
<b>Final Product</b>	Make playdough	Create a sparkling and shiny picture		Make a Rainmaker		Create a junk model boat
<b>Year 1 Topic</b>	<b>Childhood</b>		<b>Bright Lights, Big City</b>		<b>School Days</b>	
<b>Project</b>	<b>Shade and Shelter</b>		<b>Taxi</b>		<b>Street View</b>	
<b>Knowledge</b>	This project teaches children about the purpose of shelters and their materials. They name and describe shelters and design and make shelter prototypes. Children then design and build a play den as a group and evaluate their completed product.		This project teaches children about wheels, axles and chassis and how they work together to make a vehicle move.		This project teaches children about sources of food and the preparatory skills of peeling, tearing, slicing, chopping, mashing and grating. They use this knowledge and techniques to design and make a supermarket sandwich according to specific design criteria.	
<b>Skills</b>	Construct simple structures, models or other products using a range of materials. Select and use a range of materials, beginning to explain their choices.		Use wheels and axles to make a simple moving model.		Select the appropriate tool for a simple practical task. View progression  Explain why hand washing and cleanliness are important.  Measure and weigh food items using non-standard measures, such as spoons and cups. View progression  Select healthy ingredients for a fruit or vegetable salad  Follow the rules to keep safe during a practical task	
<b>Final Product</b>	Play Den		Moving Taxi		Supermarket Sandwich	
<b>Year 2 Topic</b>	<b>Movers and Shakers</b>		<b>Magnificent Monarchs</b>		<b>Coastline</b>	

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Project	Remarkable Recipes	Making it Move	Beach Hut
Knowledge	This project teaches children about sources of food and tools used for food preparation. They also discover why some foods are cooked and learn to read a simple recipe. The children choose and make a new school meal that fulfils specific design criteria.		This project teaches children about making and strengthening structures, including different ways of joining materials.
Skills	Select the appropriate tool for a task and explain their choice. View progression  Prepare ingredients by peeling, grating, chopping and slicing.  Work safely and hygienically in construction and cooking activities.		Explore how a structure can be made stronger, stiffer and more stable  Choose appropriate components and materials and suggest ways of manipulating them to achieve the desired effect.
Final Product	New School Meal		Beach Huts
Year 3 Topic	Through the Ages	Rocks, Relics and Rumbles	Emperors and Empires
Project	Cook Well, Eatwell	Push and Pull	Greenhouse
Knowledge	This project teaches children about food groups and the Eatwell guide. They learn about methods of cooking and explore these by cooking potatoes and ratatouille. The children choose and make a taco filling according to specific design criteria		

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<b>Skills</b>	Use appliances safely with adult supervision. Preparation techniques for savoury dishes include peeling, chopping, deseeding, slicing, dicing, grating, mixing and skinning.		
<b>Final Product</b>	<b>Taco Filling</b>		
<b>Year 4 Topic</b>	<b>Invasion</b>	<b>Misty mountain, Winding River</b>	<b>Ancient Civilisations</b>
<b>Project</b>	<b>Fresh food good food</b>	<b>See the light</b>	<b>Tomb Builders</b>
<b>Knowledge</b>	This project teaches children about food decay and preservation. They discover key inventions in food preservation and packaging, then make examples. The children prepare, package and evaluate a healthy snack.		This project teaches children about simple machines, including wheels, axles, inclined planes, pulleys and levers, exploring how they helped ancient builders to lift and move heavy loads.
<b>Skills</b>	Use annotated sketches and exploded diagrams to test and communicate their ideas Prototype shell and frame structures, showing awareness of how to strengthen, stiffen and reinforce them. Cooking techniques include baking, boiling, frying, grilling and roasting.		Explore and use a range of mechanisms (levers, axles, cams, gears and pulleys) in models or products. Explore and use a range of mechanisms (levers, axles, cams, gears and pulleys) in models or products.
<b>Final Product</b>	<b>Healthy Packaged Snack</b>		<b>Machine Proto-type</b>
<b>Year 5 Topic</b>	<b>Dynamic Dynasties</b>	<b>Sew, Grow and Farm</b>	<b>Ground-breaking Greeks</b>
<b>Project</b>	<b>Moving Mechanisms</b>	<b>Eat the Seasons</b>	<b>Architecture</b>
<b>Knowledge</b>	This project teaches children about pneumatic systems. They experiment with pneumatics before designing,	This project teaches children about the meaning and benefits of seasonal eating,	This project teaches children about how architectural style and technology has developed over time and

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	making and evaluating a pneumatic machine that performs a useful function.	including food preparation and cooking techniques.	then use this knowledge to design a building with specific features.
<b>Skills</b>	Use mechanical systems in their products, such as pneumatics. Test and evaluate products against a detailed design specification and make adaptations as they develop the product.	<b>Dicing, peeling, grating</b> Use an increasing range of preparation and cooking techniques to cook a sweet or savoury dish	Build a framework using a range of materials to support mechanisms. Support, stiffness and stability can be created by using triangular shapes to create strong frameworks, columns to support roofs and overlapping brickwork patterns. Select and combine materials with precision including sewn fabric.
<b>Final Product</b>	<b>Pneumatic Prototype</b>	<b>Soup</b>	<b>Greek Building</b>
<b>Year 6 Topic</b>	<b>Maafa</b>	<b>Frozen Kingdoms</b>	<b>Britain at War</b>
<b>Project</b>	<b>Food for Life</b>	<b>Switch</b>	<b>Make Do and Mend</b>
<b>Knowledge</b>	This project teaches children about significant black artists and their work, and provides opportunities to analyse and create artwork inspired by them.		This project teaches children a range of simple sewing stitches, including ways of recycling and repurposing old clothes and materials.
<b>Skill</b>	Follow a recipe that requires a variety of techniques and source the necessary ingredients independently. Plan a healthy daily diet, justifying why each meal contributes towards a balanced diet. Preparation techniques, such as chopping, slicing, dicing, kneading and mashing, and cooking techniques, such as boiling, roasting, frying and baking.		Select appropriate tools for a task and use them safely and precisely Hand stitches include running stitch, blanket stitch and whip stitch. Pin and tack fabrics in preparation for sewing and more complex pattern work. Use different methods of fastening for function and decoration, including press studs, Velcro and buttons.

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Final Project	Healthy Meal		Bunting
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