

**BUDE PARK PRIMARY – DESIGN AND TECHNOLOGY OVERVIEW**

<b>Subject:</b>	<b>Year:</b>	<b>Unit 1</b>	<b>Unit 2</b>	<b>Unit 3</b>			
<b>Design and Technology</b>	<i>All year groups will follow a design, practice using focused practice tasks, make and evaluate process for all D &amp; T units</i>						
	<b>FS1</b>	<b>Food and Nutrition – Porridge with a healthy topping</b>		<b>Structures – Make a simple boat</b>	<b>Textiles – Create a flower</b>		
		<b>Curricular Goals</b>					
		Can I make porridge with a healthy topping?		Can I make a simple boat and see if it floats?	Can I make a flower using different materials?		
	<b>FS2</b>	<b>Structures: Design and make a model</b>	<b>Food and Nutrition: Make a gingerbread man</b>	<b>Structures: Contribute to making a class Chinese Dragon that can be paraded</b>	<b>Textiles: Make a simple threaded design, i.e. flower or vehicle design</b>	<b>Mechanisms: Make a sliding picture (rocket to the moon)</b>	<b>Structures: Make a waterproof boat that floats</b>
		<b>Curricular Goals</b>					
		Can I use junk modelling to make a planned design?	Can I mix ingredients together and manipulate dough to create a gingerbread man?	Can I work with others to create a Chinese Dragon?	Can I use threading to create my own design?	Can I make a part on my card move up and down?	Which materials are waterproof and make the best boat?
	<b>Yr 1</b>	<b>Food and Nutrition – Fruit/Vegetable Smoothie</b>		<b>Mechanisms – Moving Vehicle</b>		<b>Textiles – Hand Puppet</b>	
		<b>Curricular Goals</b>					
		How can I describe a range of different fruits and vegetables, including how they taste before making choices about what to include in my smoothie?		What are the main components of a wheeled vehicle and how do these components work?		How can I join fabrics together to make a hand puppet?	
	<b>Yr 2</b>	<b>Food and Nutrition: Wrap</b>		<b>Mechanisms: A Moving Monster</b>		<b>Structures: Chair for Baby Bear</b>	
		<b>Curricular Goals</b>					
What are the best flavour combinations to make a healthy wrap (main ingredients and accompaniments)?		What is the best way to incorporate a linkage mechanism (pivot, lever and linkage) into a design to bring a 'model monster' to life?		How can I design and make a brand-new chair for 'Baby Bear' incorporating everything I know about making a structure sturdy?			
<b>Yr 3</b>	<b>Food and Nutrition – Winter Soup</b>		<b>Structures and Mechanisms – Fairground Wheel</b>		<b>Textiles – Pencil Case or Pouch, personalised</b>		
	<b>Curricular Goals</b>						
	Can I make a winter soup, considering seasonality and how to make the soup healthy?		How do all of the different components fit together to make a fairground wheel, ensuring that the wheels rotate, and the structure stands freely?		How can I use new and existing knowledge of different stitches to make a pencil case or pouch that is personalised?		
<b>Yr 4</b>	<b>Food and Nutrition: Pizza or tart with preferred toppings</b>		<b>Mechanisms: Slingshot car</b>		<b>Structures and Electric Systems: Stadium (links to the Roman Colosseums)</b>		

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		<b>Curricular Goals</b>		
		Can I make a savoury food product that involves me mixing, kneading and baking, and incorporates my knowledge of seasonality and balanced diets?	How can I transform lollipop sticks, wheels, dowel and straws into a moving car, that incorporates a launch mechanism?	How can I use my knowledge of strong, stable structures to make a model stadium? Can I enhance this by adding in an electric circuit to light the stadium/sign up ?
	<b>Yr 5</b>	<b>Food and Nutrition – Alternative burger or spaghetti Bolognese</b>	<b>Structures and Mechanisms – Bridge, incorporating a lifting or swinging mechanism</b>	<b>Textiles – Marketable customisable soft toy</b>
		<b>Curricular Goals</b>		
		Can I research and modify a traditional meat burger or spaghetti Bolognese recipe to make it healthier?	How can I incorporate a lifting or swinging mechanism in to my bridge design and make project, building on my knowledge of how to strengthen my structure?	Can I create a stuffed toy by applying skills learnt in previous textile units, finishing with blanket stitch?
	<b>Yr 6</b>	<b>Food and Nutrition – Alternative to traditional fried chips and dips</b>	<b>Structures – Model playground</b>	<b>Electrical Systems - Steady hand game</b>
		<b>Curricular Goals</b>		
		Can I research and modify a traditional chip and dip recipe to make it healthier?	Can I design and create a model for a new playground featuring five apparatus, made from three different structures?	How can I apply knowledge of electric circuits to design and create a steady hand game?