



*Lady Bay Primary School Subject Overview for  
Design and Technology*

	<i>Autumn 1</i>	<i>Autumn 2</i>	<i>Spring 1</i>	<i>Spring 2</i>	<i>Summer 1</i>	<i>Summer 2</i>
<i>Foundation</i>						
<i>Year 1</i>			<p><b>How can we create a hand puppet for a child based on a character from a traditional tale?</b></p> <p>Skills: Design, Plan, Materials, Join, evaluate.</p>	<p><b>Can you design a fruit or vegetable kebab?</b></p> <p><b>Where does food come from?</b></p> <p>Skills: Wash, peel, chop, cut, food hygiene</p>	<p><b>How can we make structures stronger and more stable?</b></p> <p>Skills: Glue, Staple, Tie, Tab, Hole punch, Fix, Attach, Join, assemble</p>	
<i>Year 2</i>	<p><b>Can I design a rocket that is aero dynamic?</b></p>			<p><b>How can I make my bridge strong?</b></p> <p>Skills: Design, fold, twist, bend, join,</p>	<p><b>What can I make move in my design?</b></p> <p>Design and make a 'Fairy tale' map</p>	<p><b>What do I need to eat to stay healthy?</b></p> <p>Prepare a smoothie/fruit salad</p>

	Skills: Design, label, cut, join, attach, evaluate, improve			supports, evaluate, improve	including moving parts  Skills: Design, join, make a lever/pulley, evaluate	Skills: Design, plan, chop, cut, dice, slice, grate, peel, evaluate
<i>Year 3</i>	<p><b>What does food from the Mediterranean taste like?</b></p> <p><b>Plan and make a salsa.</b></p> <p>Skills: Plan, cut, slice, chop, grate, mix, spread, safety, understand hygiene, evaluate.</p>		<p><b>What is a lever and why are they used?</b></p> <p><b>Make an Egyptian shaduf.</b></p> <p>Skills: Plan, select tools, measure, saw, join, safety, evaluate.</p>			<p><b>Why are cushions different? What is the purpose of a cushion?</b></p> <p>Design and make a cushion.</p> <p>Skills: Design, cut, applique, running stitch, backstitch, blanket stitch, unpick, safety.</p>
<i>Year 4</i>		<p><b>How does a light up card work and can I design one?</b></p> <p>Skills: Design, make, fold, cut, measure, joins, glue, safety, make</p>		<p><b>What is an onager and can I design one?</b></p> <p>Skills: Measure, cut, saw, glue gun, add</p>		<p><b>Can I make and design a bridge to carry something?</b></p> <p>Skills: recognise and label features on a bridge, compare bridge designs, saw,</p>

		<p><b>a hole, evaluate, improve</b></p> <p><b>Can I design and make a Christmas decoration?</b></p> <p>Skills: Design, cut, measure, join – sew (running stitch, blanket stitch)</p>		<p>torsion, design, make, evaluate.</p> <p>Design and make a pizza</p>		<p>cut, attach, review, evaluate. Choose one to make, plan, design, measure, join, strengthen (triangle base?), Including labelling features of bridges (i.e. Cable, tower, supports etc)</p> <p><b>Study James Dyson and his vac (2 Weeks)</b></p> <p>Learn about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products.</p>
<p><i>Year 5</i></p>	<p><b>What would a new rainforest animal look like? (Design one)</b></p>			<p><b>What are the design criteria for my iPad cover?</b></p> <p>Skills: Evaluate the need for an iPad</p>		<p><b>How do I make a flatbread? (Evaluating and making Greek food)</b></p>

	<p><b>Research rainforest animals and design a new one based on their needs.</b></p> <p>Skills: Research, plan/design/label, make a 2d design in to a 3d model, create a frame, use paper mache effectively, scaffold, paint, evaluate.</p>			<p>case – why might we need one?, discuss existing designs, function, need, specifications, measure, cut, sew with different stitches (blanket, running)</p>		<p>Skills: Evaluate existing products and how they are made- products. Using a range of preparation techniques eg peeling, chopping, slicing, grating, mixing.</p> <p>make a dough proving, kneading, baking, frying</p>
<p><i>Year 6</i></p>	<p><b>How can motors and pulley systems be used to create a fairground ride?</b></p> <p>Skills: Investigate fairground rides; and understand how mechanical systems such as cams or pulleys or gears create</p>		<p><b>Where did Native Americans/Indigenous Americans get their food?</b></p> <p>Skills: Understand that food is grown or caught, understand seasonal food, make a range of sweet/savoury dishes, plan/design a</p>		<p><b>Textiles - How can I design and make a drawstring bag?</b></p> <p>Skills: Investigate how clothes are made – look at joining techniques such as zips, stitching, buckles, Velcro, plan/design (consider purpose),</p>	

	<p>movement, look at complex electrical circuits and components can be used to create functional products Understand that mechanical and electrical systems have an input,</p> <p>Design, Use tools safely and accurately. assemble components, reinforce and strengthen a 3D framework, use finishing techniques to strengthen, evaluate, improve the prototype, measure, cut, join, attach, strengthen</p>		<p>variety of food from the continent of America (nachos, potato salad...) peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.</p>		<p>make – measure, cut, pin, sew, stitch with a variety of stitches,</p>	
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