



## Oaklands Primary School Design & Technology Long Term Curriculum Plan

EYFS		Autumn	Spring	Summer
		<b>Textiles – What are materials? (sock snowmen)</b> - understand that a 3D textile structure can be made from two identical fabric shapes	<b>Food – What are fruits &amp; vegetables (fruit kebab)</b> - Begin to describe some different texture of food	<b>Structures – What is a structure? (rocket)</b> - begin to measure and join materials, with some support
Key Stage 1	Year 1	<b>Autumn</b> <b>Food – How can you create a healthy smoothie? (fruit smoothies)</b> <ul style="list-style-type: none"> <li>That fruit and vegetables are healthy</li> <li>cut, peel and grate safely, with support</li> </ul>	<b>Spring</b> <b>Textiles – How can you join two materials together? (Templates &amp; joining)</b> measure, cut and join textiles to make a product, with some support join textiles together to make a product, and explain how I did it	<b>Summer</b> <b>Structure – What makes a good structure? (freestanding structures)</b> <ul style="list-style-type: none"> <li>use own ideas to try and make product stronger</li> <li>begin to measure and join materials</li> </ul>
	Year 2	<b>Mechanisms – How do wheels’ work? (fire engines)</b> <ul style="list-style-type: none"> <li>begin to understand how to use wheels and axles</li> <li>design a product for a purpose</li> </ul>	<b>Mechanisms – How do you make a moving picture? (slides and levers)</b> <ul style="list-style-type: none"> <li>begin to use levers or slides</li> <li>design a product for a user</li> </ul>	<b>Food – How can we prepare fruit and veg for a Moroccan dish? (Moroccan couscous)</b> <ul style="list-style-type: none"> <li>explain how to be safe / hygienic and follow own guidelines</li> <li>The differences between some food groups (i.e. sweet, vegetable etc.)</li> <li>Describe how food is farmed, home-grown, or caught</li> </ul>
Lower Key Stage 2	Year 3	<b>Autumn</b> <b>Textiles – How can you turn a 2D design into a 3D product? (Glove puppets)</b> <ul style="list-style-type: none"> <li>join different textiles in different ways</li> <li>choose textiles considering appearance and functionality</li> </ul> begin to understand that a simple fabric shape can be used to make a 3D textiles project	<b>Spring</b> <b>Food – What makes a healthy and varied lunch? (sandwich/ pitta/ wrap)</b> <ul style="list-style-type: none"> <li>draw eat well plate; explain there are groups of food</li> <li>Describe “five a day”</li> <li>begin to understand seasonality of foods</li> </ul>	<b>Summer</b> <b>Structures – How can you make an effective food container structure? (pizza boxes)</b> <ul style="list-style-type: none"> <li>Use nets to create stronger products</li> <li>select materials carefully, considering intended use of product and appearance</li> </ul> make a strong, stiff structure.
	Year 4	<b>Mechanical Structures – How can I use levers and linkages to make my Christmas card move? (Christmas cards)</b> <ul style="list-style-type: none"> <li>begin to try new/different ideas</li> <li>use simple lever and linkages to create movement</li> <li>select most appropriate tools / techniques</li> </ul> explain alterations to product after checking it	<b>Electrical Systems – How can you programme a light to flash? (Light-up sign)</b> <ul style="list-style-type: none"> <li>use simple circuit in product</li> <li>learn about how to program a computer to control product.</li> </ul> understand and use electrical systems in their products linked to science coverage.	<b>Food – How can we follow a recipe to make a moussaka? (Celebrating culture and seasonality)</b> <ul style="list-style-type: none"> <li>begin to understand food comes from UK and wider world</li> <li>describe how healthy diet= variety/balance of food/drinks</li> </ul> grow in confidence using some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking



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		Autumn	Spring	Summer
		Upper Key Stage 2	Year 5	<b>Textiles – How can we combine different fabric shapes effectively? (Christmas Baubles)</b> <ul style="list-style-type: none"> <li>- make product attractive and strong</li> <li>- design and use own template</li> <li>- use a range of joining techniques</li> </ul>
	Year 6	<b>Structures – How can we make a strong frame structure? (frame structures)</b> <ul style="list-style-type: none"> <li>- begin to reinforce and strengthen a 3D frame</li> <li>- ensure product is strong and fit for purpose</li> <li>- explain how product meets design criteria</li> </ul>	<b>Electrical Systems – How can we adapt circuits to make a more functional product? (more complex switches)</b> <ul style="list-style-type: none"> <li>- Understand and use electrical systems in their products linked to science coverage.</li> <li>- Apply their understanding of computing to program and control their products.</li> <li>- Confidently use number of components in circuit</li> </ul>	<b>Food – Can we follow multiple recipes to create a Mexican dish? (Mexican meal)</b> <ul style="list-style-type: none"> <li>- describe some of the different substances in food and drink, and how they can affect health</li> <li>- use range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.</li> <li>- understand seasonality of food understand food can be grown, reared or caught in the UK and the wider world</li> </ul>