



Design & Technology Long Term Plan

Class 1 (Year 1)

	Autumn	Spring	Summer
Reception	Expressive art and design- see Early Years planning		
Year A	<p style="text-align: center;"><u>Textiles</u></p> <p>Product: <i>Puppets</i></p> <p>User: Family member</p> <p>Purpose: Christmas gift</p> <p>Inspire Text: Jolly Christmas postman</p>	<p style="text-align: center;"><u>Food and Nutrition</u></p> <p>Product: Smoothie</p> <p>User: Innocent Smoothies</p> <p>Purpose: New Smoothie flavour and packaging</p> <p>Inspire Text: Oliver's Fruit Salad</p>	<p style="text-align: center;"><u>Mechanical systems</u></p> <p>Product: Storybook page with lever and slider</p> <p>User: Child</p> <p>Purpose:</p> <p>Inspire Text:</p>
Year B	<p style="text-align: center;"><u>Textiles</u></p> <p>Product: Tie dye stocking</p> <p>User: Santa</p> <p>Purpose: Christmas Decoration</p> <p>Inspire Text: Twas the night before Christmas</p>	<p style="text-align: center;"><u>Structures</u></p> <p style="text-align: center;"><i>Joining materials</i></p> <p>Product: Windmill</p> <p>User: Mouse</p> <p>Purpose: New House</p> <p>Inspire Text: Mouse in a windmill song</p>	<p style="text-align: center;"><u>Mechanical systems (Wheels and axels)</u></p> <p>Product: Car</p> <p>User: Children</p> <p>Purpose: Wacky Races</p>

Class 2 (Year 2/3)

	Autumn	Spring	Summer
Year A	<p style="text-align: center;"><u>Textiles</u></p> <p>Product: Pouches</p>	<p style="text-align: center;"><u>Food and Nutrition</u></p> <p>Product: Eating seasonally</p>	<p style="text-align: center;"><u>Mechanical Systems</u></p> <p>Product: Make a moving monster</p>



	<p>User: Gift recipient</p> <p>Purpose: Hold coins/jewels</p> <p>Inspire Text: Non fiction (fabric)</p> <p>Y2 felt</p> <p>Y3 applique</p>	<p>User: Class</p> <p>Purpose: To understand that seasonal fruit and veg positively affect the environment</p> <p>Inspire Text: Last Garden</p> <p>Y2 balanced diet</p> <p>Y3 create seasonal fruit tart</p>	<p>User: Child</p> <p>Purpose: Summer fair</p> <p>Inspire Text: Pop up books</p> <p>Y2 moving monster with levers, linkages & pivots</p> <p>Y3 pneumatic systems</p>
Year B	<p style="text-align: center;"><u>Structures</u></p> <p>Product: Castle</p> <p>User: Museum curator</p> <p>Purpose: English Heritage exhibition</p> <p>Inspire Text: See Inside Castles</p>	<p style="text-align: center;"><u>Digital world</u></p> <p>Product: Light up wearable technology</p> <p>User: road safety child</p> <p>Purpose: light up at night</p> <p>Inspire Text:</p> <p>Y2 design and group make (possible alternative light up?)</p> <p>Y3 Microbits</p>	<p style="text-align: center;"><u>Materials/Construction</u></p> <p>Product: Make a kite</p> <p>User: Anyone</p> <p>Purpose: Kite festival</p> <p>Inspire Text: Mary Poppins 'Let's go fly a kite'</p> <p>Y2 2D flat</p> <p>Y3 Box kite</p> <p>Unit Pack for LSK2 D&T with Kite PowerPoint Templates (twinkl.co.uk)</p>

Class 3 (Year 4, 5 and 6)

	Autumn	Spring	Summer
Year A	<p style="text-align: center;"><u>Digital worlds</u></p> <p>Product: Mindful moments timer</p> <p>User: Anyone</p>	<p style="text-align: center;"><u>Electrical Systems</u></p> <p style="text-align: center;"><i>CAD and series circuits</i></p> <p>Product: Steady hand game</p>	<p style="text-align: center;"><u>Food and Nutrition</u></p> <p>Product: Global food</p> <p>User: Restaurant</p>



	<p>Purpose: Mindfulness exhibition</p> <p>Inspire Text: The big bag of worries</p>	<p>User: School children</p> <p>Purpose: To make an interactive game for younger children</p> <p>Inspire Text:</p>	<p>Purpose: Host a meal!</p> <p>Inspire Text:</p> <p>Y4 1 course (group)</p> <p>Y5 2 course – develop a recipe</p>
Year B	<p style="text-align: center;"><u>Textiles</u></p> <p>Product: Stuffed toy (with waistcoat)</p> <p>User: Child</p> <p>Purpose: To sell at Christmas Time</p> <p>Inspire Text: Sewing Bee</p> <p>Y4 fastening</p> <p>Y5 blanket stitch</p> <p>Y6 waistcoat (sewing machine)</p>	<p style="text-align: center;"><u>Mechanical systems</u></p> <p style="text-align: center;"><i>Levers, cams, wheels and axels</i></p> <p>Product: Automata toy</p> <p>User: Smyths toys</p> <p>Purpose: To entertain</p> <p>Inspire Text:</p> <p>Y4- cams</p> <p>Y5- cam and slider</p> <p>Y6 – all mechanical system elements</p>	<p style="text-align: center;"><u>Structures</u></p> <p style="text-align: center;"><i>Cutting, shaping, joining and finishing</i></p> <p>Product: Miniature Greenhouses</p> <p>User: RHS</p> <p>Purpose: To replace current greenhouses in some of their properties</p> <p>Inspire Text: Secret Garden</p> <p>Science link: Plants</p>
Year C	<p style="text-align: center;"><u>Electrical Systems</u></p> <p style="text-align: center;"><i>Switches and Motors</i></p> <p>Product: Fairground ride</p> <p>User: Seaside Resort</p> <p>Purpose: Produce a model of a moving fairground ride</p> <p>Inspire Text: The Rollercoaster Boy</p> <p>Science Link: Forces</p>	<p style="text-align: center;"><u>Mechanical Systems</u></p> <p style="text-align: center;"><i>Pulleys, wheels and gears</i></p> <p>Product: Make a sling shot car</p> <p>User: Anyone</p> <p>Purpose: To explore Mars</p> <p>Inspire Text: Curiosity: The story of the Mars Space Rover</p>	<p style="text-align: center;"><u>Food and Nutrition</u></p> <p style="text-align: center;"><u>Food and Nutrition</u></p> <p>Product: Healthy meal</p> <p>User: Come dine with me</p> <p>Purpose: To cook a menu</p> <p>Inspire Text: Hugh Fearnley Whittingstall—Fruit Everyday</p> <p>Y4 1 course (biscuit recipe)</p>



St Peter's Brafferton
C of E (VA) Primary School

Small school, big heart

	Year 4: Motor Year 5: Switch and a motor Year 6: Switch, motor and microbit	Year 4: Slingshot car Year 5: Pop up element Year 6 : Combining mechanical systems	Y5 Develop a recipe (bolognaise) Y6 3 course and budgeting (write a recipe)
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