



Design Technology Yearly Overview

Year Group	Autumn	Spring	Summer	Cross-curricular links
Year 3	<p><b><u>Mechanical Systems (Levers &amp; linkages): Greeting cards</u></b> Children investigate, analyse and evaluate books and, where available, other products which have a range of lever and linkage mechanisms. Children then design, make and evaluate their own greeting cards in which lever and linkages are required for product functionality.</p>	<p><b><u>Structures (Shell structures): Desk tidy</u></b> Children investigate a collection of different shell structures including packaging before using 3d nets to explore a variety of structures. Children then design, make and evaluate their own desk tidy.</p>	<p><b><u>Food technology (Healthy &amp; varied diet): Sandwich snacks</u></b> Children investigate a range of food products e.g. the content of their lunchboxes over a week, a selection of foods provided for them, food from a visit to a local shop. Link to the principles of a varied and healthy diet using The Eat Well Guide (NHS).</p>	<p><b>RE:</b> Nativity/Christmas cards <b>Maths:</b> Measure, 2d and 3d shapes <b>Computing:</b> Publisher <b>Spanish:</b> Las Frutas y Verduras (Fruit and vegetables) <b>Art and Design:</b> Using and developing drawing skills. <b>SHINE:</b> Healthy bodies</p>
Year 4	<p><b><u>Textiles (2d shape to a 3d product): Money Containers</u></b> Children investigate a range of textile products that have a selection of stitches, joins, fabrics, finishing techniques, fastenings and purposes, linked to the product they will design, make and evaluate. Children will think about products from the past and what changes have been made in textile production.</p>	<p><b><u>Electrical systems (Simple circuits &amp; switches): Alarms</u></b> Children recap how to make manually controlled, simple series circuits with batteries and different types of switches, bulbs and buzzers, demonstrating how to find a fault in a simple circuit and correct it. Children to make a variety of switches by using simple classroom materials before producing a circuit to sit within a product i.e. an alarm.</p>	<p><b><u>Food technology (Healthy &amp; varied diet): Salads</u></b> Children investigate a range of food products e.g. the content of their lunchboxes over a week, a selection of foods provided for them, food from a visit to a local shop. Link to the principles of a varied and healthy diet using The Eat Well Guide (NHS).</p>	<p><b>Science:</b> Electricity <b>Maths:</b> Measure <b>Spanish:</b> Las Frutas y Verduras (Fruit and vegetables) <b>Art and Design:</b> Using and developing drawing skills. <b>SHINE:</b> Healthy bodies</p>
Year 5	<p><b><u>Mechanical systems (Pulleys or gears): Toy vehicles</u></b> Children will investigate, analyse and evaluate existing everyday products and existing or pre-made toys that incorporate gear or pulley systems. Children will explore both pulley and gear systems before designing and making a product containing one of the mechanism systems.</p>	<p><b><u>Structures (Frame structures): Bird hides</u></b> Children investigate and make annotated drawings of a range of portable and permanent frame structures. They will then build 2-D frameworks, comparing the strength of square frameworks with triangular frameworks before designing and making their own bird hides to be used around school.</p>	<p><b><u>Food technology (Celebrating culture &amp; seasonality): Pizza</u></b> Children to carry out relevant research into existing products to include personal/cultural preferences, ensuring a healthy diet, meeting dietary needs. Children carry out sensory evaluations of a variety of existing food products and ingredients relating to the project before designing and making their own pizzas.</p>	<p><b>Maths:</b> Measure &amp; Geometry <b>Science:</b> Living things and their habitats <b>Science:</b> Animals including humans <b>Art and Design:</b> Using and developing drawing skills <b>SHINE:</b> Healthy bodies</p>
Year 6	<p><b><u>Textiles (Combining different fabric shapes): Bags</u></b> Children investigate and evaluate a range of existing products which have been produced by combining fabric shapes. They then develop skills of threading needles and joining textiles using a range of stitches (recap Yr4). Children will then design, make and evaluate a bag made from recycled material.</p>	<p><b><u>Electrical systems (More complex switches): Night light</u></b> Children to research and discuss a range of relevant products that respond to changes in the environment using a computer control program such as automatic nightlights, alarm systems, security lighting etc. When designing and making children are to draw on science understanding, exploring a range of electrical systems that could be used to control their products, e.g. simple series circuit where a single output device is controlled, a series circuit where two output devices are controlled etc.</p>	<p><b><u>Food technology (Celebrating culture &amp; seasonality): Bread</u></b> Children to carry out relevant research into existing products to include personal/cultural preferences, ensuring a healthy diet, meeting dietary needs. Children carry out sensory evaluations of a variety of existing food products and ingredients relating to the project before designing and making their own bread.</p>	<p><b>Maths:</b> Measure <b>Science:</b> Electricity <b>Science:</b> Healthy Bodies <b>History:</b> WW2 Make do &amp; mend <b>RE:</b> Symbolism of bread <b>Art and Design:</b> Using and developing drawing skills <b>SHINE:</b> Healthy bodies</p>

