



Design and Technology Curriculum Map

Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery	<p style="text-align: center;">Food: How to make ice cream, apple crumble, pumpkin soup How to make playdough, bread, balance How to make a city, boat, moon dough</p> <p style="text-align: center;">Mechanisms: Encourage children to play with trains in the classroom and explore how the train carriages are attached to each other.</p> <p style="text-align: center;">Joining materials: Provide equipment such as pipe cleaners, paper clips, elastic bands and paper strips so that children can experiment with joining materials.</p>					
Reception	<p style="text-align: center;">Structures: Encourage children to play with ramps and balls. Ask them how they think they can change the ramps to make the balls go faster. Provide planks, balls and cars for children to experiment with.</p> <p style="text-align: center;">Read How to Design the World's Best Roller Coaster in 10 Simple Steps by Paul Mason.</p> <p style="text-align: center;">Fine Motor Box challenges. These develop children's physical skills as well as critical thinking. Challenges include: 'bridge building' using mini cups, lolly sticks and small world animals; 'shape building' with match sticks and playdough etc</p> <p style="text-align: center;">Den building at Delamere Forest. Working in a small group, two pronged branches are used to create the initial structure for a den. Children</p> <p style="text-align: center;">Joining materials: Children are encouraged to create hats for the school's annual Easter Parade.</p> <p style="text-align: center;">Food: Cupcake Baking. Children use the 'pan balance and egg' method to create a favourite flavoured cake. Children follow the photographs to ensure accuracy. 'Obstacle Course' Adult to support children to create their own obstacle courses using a growing selection of materials.</p>					
Year 1		<p style="text-align: center;"><u>Mechanisms:</u> <u>slider & levers</u> Design a moving picture based on a story using levers and simple sliders within a slot to move in a straight line, round & round & in a curve</p>		<p style="text-align: center;"><u>Frames & Structures:</u> <u>making furniture</u> Design free-standing pieces of furniture using card and glue with different functions in a room. Focus on the end product's foundation and stability.</p>		<p style="text-align: center;"><u>Food & Nutrition:</u> <u>fruit salad</u> Discuss what fruit is and its origins of different fruits. Discuss food hygiene Skills: peel and cut and arrange attractively Taste and evaluate.</p>
Year 2	<p style="text-align: center;"><u>Textiles:</u> <u>designing puppets</u> Making a puppet using a variety of joining techniques: stapling, pinning, gluing, safety pins.</p>		<p style="text-align: center;"><u>Mechanisms:</u> <u>Moving vehicles</u> Design a simple vehicle that can move using wheels & axles</p>		<p style="text-align: center;"><u>Food & Nutrition:</u> <u>healthy sandwich</u> Revise food hygiene. Discuss components of a healthy sandwich. Skills: squeezing, cutting, slicing, chopping, grating. Taste and evaluate.</p>	
Year 3		<p style="text-align: center;"><u>Textiles:</u> <u>Purses and wallets</u> Design and make a purse using back, running, over & blanket stitch including decorative cross stitch.</p>		<p style="text-align: center;"><u>Frames & structures:</u> <u>Packaging and boxes</u> Design a shell structure (Easter egg box) focusing on accurately drawn 3D nets and their appropriateness to the end product.</p>		<p style="text-align: center;"><u>Food & Nutrition:</u> <u>savoury scones</u> Revise food hygiene. Research healthy savoury flavours. Skills: See Y2, rubbing, weighing and measuring Taste and evaluate.</p>



<p>Year 4</p>		<p><u>Electrical systems:</u> <u>Torches</u> Design and make a torch with an electrical circuit including an off/on switch. Investigate different switches and their uses</p>			<p><u>Food & Nutrition:</u> <u>Healthy pizzas</u> Revise food hygiene. Research toppings Skills: See Y2/3, making dough, assembling topping ingredients. Taste and evaluate</p>	<p><u>Mechanisms:</u> <u>Levers & linkages</u> Design a picture, using annotated sketches, with two moving parts using levers, linkages, guides or bridges, loose & fixed pivots to promote linear, rotary and oscillating movements.</p>
<p>Year 5</p>		<p><u>Mechanisms:</u> <u>moving wells</u> 1. Using construction toys, make a moving toy using gears, pulleys and levers 2. Design & make a well using a set of related parts and components</p>		<p><u>Food & Nutrition:</u> <u>WW2 healthy fruit crumble</u> Revise food hygiene Research rationed ingredients in WW2 Discuss how dessert can be made healthier: add oats, honey and variety of fruit Skills: See Y2/3/4, weighing out crumble ingredients, preparing range of fruit. Taste and evaluate.</p>		<p><u>Frames & structures:</u> <u>making Viking houses</u> Design & make Viking houses using wooden dowelling. Focusing on accurate measurements to avoid wastage and triangulation to aid strength.</p>
<p>Year 6</p>		<p><u>Textiles:</u> <u>Xmas stocking</u> Draw and make and stocking with applique. Revise running, blanket and back stitch and introduce chain, stem and satin stitch to decorate applique component of stocking.</p>		<p><u>Electrical systems and products:</u> <u>making a game</u> Make an easy to use buzzer game including parallel circuits and a variety of switches, bulbs and buzzers. Look at electrical products such as fans alarms and torches.</p>		<p><u>Food & Nutrition:</u> <u>Chilli & salsa</u> Revise food hygiene. Design own recipe for their lasagne after researching healthy potential ingredients and reviewing cost. Carousel activities: white sauce, browning veg, assembly ingredients. Skills: revision of Y2-5 Taste & evaluate</p>