



KS1 Design Technology Curriculum Overview

Year 1 and 2		(8/12 hrs per project - 1 project per term).	
<p>Pupils should develop knowledge, understanding and skills needed to engage in an iterative process of designing and making. The should work in a range of relevant contexts (for example, the home and school, gardens and playground the local community, industry and the wider environment).</p> <p>Cooking and Nutrition – Pupils should use the basic principles of a healthy and varied diet to prepare dishes and understand where food comes from.</p>			
	Autumn	Spring	Summer
Year 1	Mechanisms – Sliders and Levers	Structures – Free Standing Structures	Cooking and Nutrition – Preparing Fruits and Vegetables.
	<p>Designing</p> <ul style="list-style-type: none"> • Can generate ideas based on simple design criteria and their own experiences, explaining what they could make. • Develop, model and communicate their ideas through drawings and mock ups with card and paper. <p>Making</p> <ul style="list-style-type: none"> • Plan by suggesting what to do next • Select and use tools explaining their choices to cut, shape and join paper and card. 	<p>Designing</p> <ul style="list-style-type: none"> • Generate ideas based on simple design criteria and their own experiences, explaining what they could make. • Develop, model and communicate their ideas through talking, mock-ups and drawings. <p>Making</p> <ul style="list-style-type: none"> • <i>Plan by suggesting what to do next.</i> • Select and use tools, skills and techniques, explain their choices. • Select new and reclaimed materials and construction kits to build their choices. 	<p>Designing</p> <ul style="list-style-type: none"> • Design appealing products for a particular user based on simple design criteria. • Generate initial ideas and design criteria through investigating a variety of fruit and vegetables. • Communicate ideas through talk and drawing. <p>Making</p> <ul style="list-style-type: none"> • Use simple utensils and equipment to peel, cut, slice, squeeze and chop safely. • Select from a range of fruits and vegetables according to their characteristics e.g colour, texture and taste to create a chosen product.



	<ul style="list-style-type: none"> • Use simple finishing techniques to suitable for the products they are creating. <p>Evaluating</p> <ul style="list-style-type: none"> • Explore a range of existing books and everyday products that use simple sliders and levers. • Evaluate their product by discussing how well it works in relation to the purpose and the user and where it meets the design criteria. <p>Technical Knowledge</p> <ul style="list-style-type: none"> • Explore and use sliders and leavers. • Understand that different mechanisms produce different types of movement. • Know and use technical vocabulary relevant to the project. – <i>slider, leaver, pivot, slot.</i> 	<ul style="list-style-type: none"> • Use simple finishing techniques suitable for the structure they are creating. <p>Evaluating</p> <ul style="list-style-type: none"> • Explore a range of freestanding structures in the school and local environment e.g everyday products and buildings. • Evaluate their product by discussing how well it works in relation to the purpose, the user, and whether it meets the original design criteria. <p>Technical Knowledge</p> <ul style="list-style-type: none"> • Know how to make freestanding structures stronger, stiffer and more stable. • Know and use technical vocabulary relevant to the project. 	<ul style="list-style-type: none"> • Children can follow procedures for safety and hygiene. <p>Evaluating</p> <ul style="list-style-type: none"> • Taste and evaluate a range of fruit and vegetables to determine intended users preferences. • Evaluate ideas and finished products against design criteria, including intended user and purpose. <p>Technical Knowledge</p> <ul style="list-style-type: none"> • To understand where a range of fruit and vegetables come from e.g farmed or grown at home. • Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of <i>The Eatwell Plate.</i> • Know and use technical and sensory vocabulary relevant to the project.
<p>Vocabulary</p>	<ul style="list-style-type: none"> • Slider • Lever • Pivot 	<ul style="list-style-type: none"> • cut • fold • join 	<ul style="list-style-type: none"> • Fruit and vegetable names • Name of equipment and utensils



	<ul style="list-style-type: none">• Slot• Bridge/guide• Card• Masking tape• Paper fastener• Join• Design• Make• Evaluate• User• Purpose• Idea• Design criteria• Product• function	<ul style="list-style-type: none">• fix• structure• wall tower• framework• weak• strong• base• top• underneath• side• edge• surface• thinner• Thicker• Corner• Point• Straight• Curved• Design• Make• Evaluate• User• Purpose• Idea• Design criteria• Product• Function	<p>Sensory Vocabulary</p> <ul style="list-style-type: none">• Soft, juicy, crunchy, sweet sticky smooth, sharp, crisp, sour, hard• Flesh• Skin• Seed• Pip• Core• Slicing• Peeling• Cutting• Squeezing• Healthy diet• Choosing• Ingredients• Planning• Investigating• Tasting• Arranging• Popular• Design• Evaluate• criteria's
--	---	---	---



Year 2	Cooking and Nutrition – Preparing fruit and vegetables	Mechanisms – Wheels and Axles	Textiles – Templates and joining techniques
	<p>Designing</p> <ul style="list-style-type: none"> • Design appealing products for a particular user based on simple design criteria. • Generate initial ideas and design criteria through investigating a variety of fruit and vegetables. • Communicate ideas through talk and drawing. <p>Making</p> <ul style="list-style-type: none"> • Use simple utensils and equipment to peel, cut, slice, squeeze and chop safely. • Select from a range of fruits and vegetables according to their characteristics e.g colour, texture and taste to create a chosen product. • Children can follow procedures for safety and hygiene. <p>Evaluating</p> <ul style="list-style-type: none"> • Taste and evaluate a range of fruit and vegetables to determine intended users preferences. 	<p>Designing</p> <ul style="list-style-type: none"> • Can generate ideas based on simple design criteria and their own experiences, explaining what they could make. • Develop, model and communicate their ideas through drawings and mock ups. <p>Making</p> <ul style="list-style-type: none"> • Select and use a range of tools and equipment to perform practical tasks such as cutting and joining to allow movement and finishing. • Select from and use a range of materials and components such as paper, card, plastic and wood according to their characteristics. <p>Evaluating</p> <ul style="list-style-type: none"> • Explore a range of existing products with wheels and axles. • Evaluate their ideas throughout and their products against original criteria. <p>Technical Knowledge and Understanding</p>	<p>Designing</p> <ul style="list-style-type: none"> • Design a functional and appealing product for a chosen user and purpose based on simple design criteria. • Generate, develop, model and communicate their ideas as appropriate through talking, drawing, templates, mock-ups and information and communication technology. <p>Making</p> <ul style="list-style-type: none"> • Select from and use a range of tools and equipment to perform practical tasks such as marking out, cutting, joining and finishing. • Select from and use textiles according to their characteristics. <p>Evaluating</p> <ul style="list-style-type: none"> • Explore and evaluate a range of existing textile products relevant to the project being undertaken. • Evaluate their ideas throughout and their final products against original design criteria. <p>Technical Knowledge and Understanding</p>



	<ul style="list-style-type: none"> Evaluate ideas and finished products against design criteria, including intended user and purpose. <p>Technical Knowledge and Understanding</p> <ul style="list-style-type: none"> To understand where a range of fruit and vegetables come from e.g farmed or grown at home. Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of <i>The Eatwell Plate</i>. Know and use technical and sensory vocabulary relevant to the project. 	<ul style="list-style-type: none"> Explore and use wheels, axles and axle holders. Distinguish between fixed and freely moving axles Know and use technical vocabulary relevant to the project. 	<ul style="list-style-type: none"> Understand how simple 3-D textile products are made, using a template to create two identical shapes Understand how to join fabrics using different techniques e.g. running stitch, glue, over stitch, stapling. Explore different finishing techniques e.g. using painting, fabric crayons, stitching, sequins, buttons and ribbons. Know and use technical vocabulary relevant to the project.
<p>Vocabulary</p>	<ul style="list-style-type: none"> Fruit and vegetable names Name of equipment and utensils <p>Sensory Vocabulary</p> <ul style="list-style-type: none"> Soft, juicy, crunchy, sweet sticky smooth, sharp, crisp, sour, hard Flesh Skin Seed 	<ul style="list-style-type: none"> Vehicle Wheel Axel Axle holder Chassis Body Cab Assembling Cutting 	<ul style="list-style-type: none"> Name of existing products, Joining and finishing techniques Tools Fabrics and components Tenplate Pattern pieces Mark out Join Decorate



	<ul style="list-style-type: none">• Pip• Core• Slicing• Peeling• Cutting• Squeezing• Healthy diet• Choosing• Ingredients• Planning• Investigating• Tasting• Arranging• Popular• Design• Evaluate• criteria's•	<ul style="list-style-type: none">• Joining• Shaping• Finishing• Fixed• Free• Moving• Mechanism• Names of tools• Equipment and materials used• Design• Make• Evaluate• User• Purpose• function	<ul style="list-style-type: none">• Finish• Features• Suitable• Quality mock up• Design brief• Design criteria• Make• Evaluate• User• Purpose• function
--	--	--	---

