

OVER HALL COMMUNITY SCHOOL
Design and Technology
Long Term Plan 2023-2024



Past and present famous figures within the design and technology industry explored within the unit.

	Autumn	Spring	Summer
Reception EAD	<p style="text-align: center;"><i>Drawing and Printing</i></p> <p>Create closed shapes with continuous lines, and begin to use these shapes to represent objects. Draw with increasing complexity and detail, such as representing a face with a circle and including details.</p> <p style="text-align: center;"><i>Painting and Puppets</i></p> <p>Use drawing to represent ideas like movement or loud noises. Show different emotions in their drawings and paintings, like happiness, sadness, fear etc.</p>	<p style="text-align: center;"><i>Printing and 3D Models</i></p> <p>Explore colour and colour-mixing. Show different emotions in their drawings – happiness, sadness, fear etc.</p> <p style="text-align: center;"><i>Weaving Pattern/shape</i></p> <p>Explore, use and refine a variety of artistic effects to express their ideas and feelings.</p>	<p style="text-align: center;"><i>Collage and Sculptures and collage</i></p> <p>Return to and build on their previous learning, refining ideas and developing their ability to represent them.</p> <p style="text-align: center;"><i>Clay</i></p> <p>Make something move. Create collaboratively sharing ideas, resources and skills.</p>
	<p>Children in EYFS will...</p> <ul style="list-style-type: none"> -Use construction kits to represent a design e.g. houses, bridges <ul style="list-style-type: none"> - Select and use materials to make a design -Record ideas for designs in drawings and diagrams - Use a variety of joining and cutting techniques including scissors to cut along a marked line - Choose resources to carry out their own plan and share and explain their ideas, choices and processes - Carry out activities to strengthen gross and fine motor skills e.g. hammer and nails (golf tees) <ul style="list-style-type: none"> - Explain the difference between healthy and unhealthy food - Begin to use cutlery independently - Make simple recipes with adult support 		
	<p>Scissor Skills Progression 3-4 year olds</p> <p>Hold the scissors in one hand (a dominant hand is unlikely to be established at this stage). Starts snipping paper (not moving forward with the scissors but making small snips)</p>		

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	Autumn Snips paper moving forward Uses helping hand to hold and help to guide the paper (non-dominant hand)	Autumn Cuts straight line (within ½ inch from the drawn line, improving in accuracy)	Spring Cuts curved line (a 1/4inch curved line, within 1/4inch from the line drawn)	Spring Cuts circle shape (a circle of 6inch in diameter, within ½ from the drawn line, improving to about ¼ inch)	Summer Cuts square shape	Summer Cuts complex shapes, such as figures.
Year 1	<i>Mechanisms - Sliders and levers</i>		<i>Structures - Freestanding Structure</i>		<i>Food – Preparing fruit and vegetables</i>	
	Making a moving slider image of a chosen character from a castle to move along the front of the image. E.g. Moving knight on a horse attacking or defending the castle. Children to link this to their traditional tale.		Designing and creating a model of an enclosure for an animal.		Make jam and marmalade sandwiches.	
	Antonio Gaudi		Zaha Hadid		Mary Berry	
Key Vocabulary Mechanism, lever, slider, slot, guide or bridge Vocabulary exposed to... slider, lever, pivot, slot, bridge/guide card, masking tape, paper fastener, join pull, push, up, down, straight, curve, forwards, backwards		Key Vocabulary Freestanding structure, frame structure, shell structure, stability, buttress, brick bonding, mock up Vocabulary exposed to... structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved		Key Vocabulary Fruit, healthy, ingredients, recipe, slice, spread Vocabulary exposed to... fruit and vegetable names, names of equipment and utensils sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard		

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Year 2	<p>Food – Preparing fruit and vegetables</p> <p>Recreate some of the United Kingdom's famous landmarks from food.</p>		<p>Mechanisms – Wheels and axles</p> <p>Create a moving vehicle (Fire engine)</p>
	<p>Jamie Oliver</p>		<p>Henry Ford</p>
	<p>Key Vocabulary</p> <p>Vegetable, diet, balanced diet, healthy, nutrients, packaging, sugar, substitute</p> <p>Vocabulary exposed to...</p> <p>fruit and vegetable names, names of equipment and utensils, sensory vocabulary</p>		<p>Key Vocabulary</p> <p>Axle, axle holder, chassis, friction, dowel</p> <p>Vocabulary exposed to...</p> <p>vehicle, wheel, axle, axle holder, chassis, body, cab assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism</p>
			<p>Textiles – Templates and joining techniques</p> <p>Make finger puppets (Goldilocks and the Three Bears)</p>
			<p>Cath Kidston</p>
			<p>Key Vocabulary</p> <p>Applique, embroider, fray, glove puppet, seam, sew, template</p> <p>Vocabulary exposed to...</p>

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			joining and finishing techniques, tools, fabrics and components template, pattern pieces, mark out, join, decorate, finish features, suitable, quality mock-up
Year 3	<p><i>Mechanical Systems – Levers and Linkages</i></p> <p>Create a moving Iron Man using different types of levers and linkages</p>		<p><i>Textiles – 2D Shape to 3D Product</i></p> <p>Create an Egyptian themed bag</p>
	<p>David Michelangelo</p>		<p>Jasper Conran</p>
	<p>Key Vocabulary Linkage, loose pivot, fixed pivot, system</p> <p>Vocabulary exposed to...</p>		<p>Key Vocabulary Seam allowance, prototype, aesthetics, fabric, fastening, compartment</p>

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	input, process, output linear, rotary, oscillating, reciprocating		Vocabulary exposed to... names of fabrics, zip, button, structure, finishing technique, strength, weakness, stiffening, templates, stitch,
	Food – Healthy and Varied Diet		
	Making soup.		
	Paul Hollywood		
	Key Vocabulary Appearance, texture, preference test, processed food Vocabulary exposed to... name of products, names of equipment, utensils, techniques and ingredients texture, savoury hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/varied diet		
Year 4	Electrical Systems Create a torch	Structures - Shell Structures Create Roman Buildings	Food – Healthy and varied diet Europe & European Food
	Dieter Rams	Norman Foster	Nadiya Hussain

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	<p style="text-align: center;">Key Vocabulary</p> <p>Circuit, conductor, insulator, push-to-break-switch, push-to-make-switch, reed switch, toggle switch, system, output devices, input devices</p> <p style="text-align: center;">Vocabulary exposed to...</p> <p>series circuit, fault, connection, battery, battery holder, bulb, bulb holder, wire, insulator, crocodile clip control, program,</p>	<p style="text-align: center;">Key Vocabulary</p> <p>Cuboid, edge, face, font, net, prism, scoring, shell structure, vertex</p> <p style="text-align: center;">Vocabulary exposed to...</p> <p>shell structure, three-dimensional (3-D) shape, net, length, width, breadth, capacity marking out, shaping, tabs, adhesives, joining, assemble, accuracy, material, stiff, strong, reduce, reuse, recycle, corrugating, ribbing, laminating</p>	<p style="text-align: center;">Key Vocabulary</p> <p>Climate, dry climate, exported, imported, mediterranean climate, nationality, temperature climate, tropical climate</p> <p style="text-align: center;">Vocabulary exposed to...</p> <p>name of products, names of equipment, utensils, techniques and ingredients texture, savoury hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/varied diet</p>
Year 5	<p style="text-align: center;"><i>Mechanical Systems – Pulleys or gears</i></p> <p style="text-align: center;">Mechanical fair ground ride toys</p>	<p style="text-align: center;"><i>Structures – Frame Structures</i></p> <p style="text-align: center;">Creating a 1930's inspired bridge.</p>	<p style="text-align: center;">Food – Celebrating culture and seasonality</p> <p style="text-align: center;">Breadmaking with Roberts Bakery.</p>
	Francis Choi Chee-ming	Santiago Calatrava	Heston Blumenthal
	<p style="text-align: center;">Key Vocabulary</p> <p>Pulley, gear, drive belt, gearing up or down, mechanical system, driver, follower, mesh, motor spindle</p>	<p style="text-align: center;">Key Vocabulary</p> <p>Modelling, compression, strut, tension, tie, diagonal, horizontal, vertical, triangulation</p>	<p style="text-align: center;">Key Vocabulary</p> <p>Rubbing in, knead, bran, dough, endosperm, germ, yeast, unleavened bread</p>

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	Vocabulary exposed to... pulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor circuit, switch, circuit diagram annotated drawings, exploded diagrams	Vocabulary exposed to... frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary	Vocabulary exposed to... fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality
Year 6	<p><i>Electrical Systems</i> – More complex switches and circuits.</p> <p>Creating a Steady Hand Game</p>	<p><i>Textiles</i> – Combining different fabric shapes</p> <p>Designing and Creating Hats linked to Darwin text (animal themed hats)</p>	<p><i>Food-</i> Celebrating culture and seasonality</p>
	Caroline Haslett	Philip Treacy	Ainsley Harriott
	<p>Key Vocabulary series circuit, parallel circuit, names of switches and components, input device, output device, system, monitor, control, program, flowchart</p>	<p>Key Vocabulary seam, seam allowance, wadding, reinforce, right side, wrong side, hem, template, pattern pieces</p>	<p>Key Vocabulary</p>

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