

# Whole School Key Learning in DT

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>EYFS</b>	<p><b>Cooking and Nutrition:</b> Bread and soup</p> <p>Cold Playdough</p> <p>Fairy cake using 1 egg and balance scales</p> <p><b>Making holes:</b> -single hole punch -double hole punch</p> <p><b>Cutting:</b> Scissors for paper (left handed and right handed) Hold scissors safely</p> <p><b>Mechanisms:</b> Flaps and Hinges Paper and card</p> <p><b>Joining:</b> Sellotape dispenser Masking Tape Glue stick</p>	<p><b>Cooking and Nutrition:</b> Fruit Kebab and Star biscuit</p> <p><b>Structure:</b> Make a rocket</p> <p><b>Making holes:</b> paper drill – cutting holes in paper and card.</p> <p><b>Joining:</b> Stapler, Double Sided Tape, PVA glue</p>	<p><b>Cooking and Nutrition:</b> Gingerbread Man and Porridge</p> <p><b>Structure:</b> Bridge for goats or Three bears chair/bed</p> <p><b>Joining:</b> Treasure tag Pipe cleaners</p> <p><b>Cutting:</b> Safety snips – for card and plastic</p>	<p><b>Cooking and Nutrition:</b> Grow ingredients for a salad</p> <p><b>Joining:</b> Split pins Nuts and bolts</p> <p><b>Cutting:</b> Scissors for fabric</p>	<p><b>Structure:</b> Bird Feeder</p> <p><b>Joining:</b> Flange Brace String/wool (Hole punch, paper and wool)</p>	<p><b>Cooking and Nutrition:</b> Prepare a salad</p> <p><b>Textiles:</b> Fabric bookmark</p> <p><b>Joining:</b> Sewing - needle and thread Slot and cut</p>
	<ul style="list-style-type: none"> <li>-Identify and choose paper and card for a purpose.</li> <li>-Card is stronger than paper.</li> <li>-Make simple flaps and hinges with paper and card.</li> <li>-Use and carry scissors safely.</li> <li>-Know how to cut, shape and join by using scissors, glue, paper and tape.</li> <li>-Wash your hands before we start cooking or preparing food.</li> <li>-A peeler is a tool used in the kitchen to peel potatoes and carrots.</li> </ul>	<ul style="list-style-type: none"> <li>-Name a range of common fruit and vegetables.</li> <li>-Cut soft fruits using appropriate utensils: blunt knife</li> <li>-Know how to cut, shape and join by using scissors, glue, paper, tape and stapler.</li> <li>-Name and know how to use a rolling pin and cutters.</li> </ul>	<ul style="list-style-type: none"> <li>-Use construction kits to build walls, towers, bridges and frameworks.</li> <li>-Explore different methods of joining card and paper: treasure tag and pipe cleaners.</li> <li>-Safety snips can be used to cut plastic and card.</li> <li>-Finishing technique - decorate gingerbread man.</li> </ul>	<ul style="list-style-type: none"> <li>-Name a range of common fruit and vegetables that we can grow in the UK.</li> <li>-Seeds can be planted to grow some fruit and vegetables.</li> <li>-Fruit and vegetables are grown over time.</li> <li>-Explore different methods of joining card and paper: split pins.</li> <li>-Fabric scissors are sharp and can be used to cut fabric.</li> </ul>	<ul style="list-style-type: none"> <li>-A bird feeder is a product placed outside to supply food to birds.</li> <li>-Explore different methods of joining card and paper: flange, brace, string.</li> <li>-Fabric scissors can be used to cut wool and string.</li> </ul>	<ul style="list-style-type: none"> <li>-Wash fruit and vegetables before eating and cooking them.</li> <li>-Fruit and vegetables can be picked when they are ready to eat.</li> <li>-A salad is a dish with mixed ingredients, frequently vegetables.</li> <li>-Can identify a fabric.</li> <li>-Cut and join fabrics with simple techniques.</li> <li>-Identify and choose fabric considering the purpose of the product.</li> </ul>

	hygiene, tools, knives, joining, linking, construct, knead, ingredients, left handed, right handed, safety, select, resources, assemble, join	kebab stick, cut, knife, chopping board, paper drill, different sized hole, structure, mix, stir, weigh, roll, cut, bake,	mix, stir, weigh, roll, cut, bake, safety snips, card, plastic, treasure tag, pipe cleaners	salad, ingredients, seeds, soil, split pins, nuts and bolts, fabric	make, construct, produce, flange, brace, string, thread, product, bird feeder	fabric, scissors, blades, sharp, thread, wash, cut, prepare, healthy, diet, needle, sequins, beads, running stitch, buttons, ribbon
<b>Year 1/2 (Redwood) Cycle A Topic</b>		<b>Making Fire Engines</b>		<b>Winders and Winding up</b>	<b>Perfect Pizza</b>	
<b>Key Learning</b>		Know how to make freestanding structures stronger, stiffer and more stable.  Know and use technical vocabulary relevant to the project.		Explore and use sliders, levers wheels, axles and axle holders.  Understand that different mechanisms produce different types of movement.  Distinguish between fixed and freely moving axles.  Know and use technical vocabulary relevant to the project.	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 The eatwell plate.  Know and use technical and sensory vocabulary relevant to the project.	
<b>Vocabulary</b>		cut, fold, join, fix structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved, metal, wood, plastic circle, triangle, square, rectangle, cuboid, cube, cylinder		slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, vehicle, wheel, axle, axle holder, chassis, body, cab assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism	fruit and vegetable names, names of equipment and utensils sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients	
<b>Year 1/2 (Redwood) Cycle B Topic</b>	<b>Eat More Fruit and Vegetables</b>			<b>Moving Pictures-using sliders Easter card (3D)</b>	<b>Glove Puppet</b>	
<b>Key Learning</b>	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 The eatwell plate.			Explore and use sliders, levers wheels, axles and axle holders.  Understand that different mechanisms produce different types of movement.  Distinguish between fixed and freely moving axles.  Know and use technical	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	

	Know and use technical and sensory vocabulary relevant to the project.			vocabulary relevant to the project.	techniques. Know and use technical vocabulary relevant to the project.	
<b>Vocabulary</b>	fruit and vegetable names, names of equipment and utensils sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients			slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, vehicle, wheel, axle, axle holder, chassis, body, cab assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism	joining and finishing techniques, tools, fabrics and components, template, pattern pieces, mark out, join, decorate, finish	
<b>Year 3/4 (Chestnut and Maple) Cycle A Topic</b>		<b>Lamps and Lanterns</b>	<b>Money Containers</b>		<b>Picture Frame</b>	
<b>Key Learning</b>		Understand and use electrical systems in their products linked to science coverage.  Apply their understanding of computing to program and control their products.  Know and use technical vocabulary relevant to the project.	Develop and use knowledge of how to construct strong, stiff shell structures.  Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes.  Know and use technical vocabulary relevant to the project.		Develop and use knowledge of how to construct strong, stiff shell structures.  Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes.  Know and use technical vocabulary relevant to the project.	
<b>Vocabulary</b>		series circuit, fault, connection, toggle switch, push-to-make switch, push-to-break switch, battery, battery holder, bulb, bulb holder, wire, insulator, conductor, crocodile clip, control, program, system, input device, output device	shell structure, three-dimensional (3-D) shape, net, cube, cuboid, prism, vertex, edge, face, length, width, breadth, capacity, marking out, scoring, shaping, tabs, adhesives, joining, assemble, accuracy, material, stiff, strong, reduce, reuse, recycle, corrugating, ribbing, laminating, font, lettering, text, graphics, decision		shell structure, three-dimensional (3-D) shape, net, cube, cuboid, prism, vertex, edge, face, length, width, breadth, capacity, marking out, scoring, shaping, tabs, adhesives, joining, assemble, accuracy, material, stiff, strong, reduce, reuse, recycle, corrugating, ribbing, laminating, font, lettering, text, graphics, decision,	
<b>Year 3/4 (Chestnut and Maple) Cycle B Topic</b>	<b>Design a packaging box for a chocolate bar</b>		<b>Get Baking</b>		<b>Roman Chariots</b>	
<b>Key Learning</b>	Develop and use knowledge of how to construct strong, stiff shell structures.		Know how to use appropriate equipment and utensils to prepare and combine food.		Understand and use lever and linkage mechanisms.  Distinguish between fixed	

	<p>Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes.</p> <p>Know and use technical vocabulary relevant to the project.</p>		<p>Know about a range of fresh and processed ingredients appropriate for their product, and whether they are grown, reared or caught.</p> <p>Know and use relevant technical and sensory vocabulary appropriately.</p>		<p>and loose pivots.</p> <p>Know and use technical vocabulary relevant to the project.</p>	
<b>Vocabulary</b>	<p>shell structure, three-dimensional (3-D) shape, net, cube, cuboid, prism, vertex, edge, face, length, width, breadth, capacity, marking out, scoring, shaping, tabs, adhesives, joining, assemble, accuracy, material, stiff, strong, reduce, reuse, recycle, corrugating, ribbing, laminating, font, lettering, text, graphics, decision,</p>		<p>name of products, names of equipment, utensils, techniques and ingredients texture, taste, sweet, sour, hot, spicy, appearance, smell, preference, greasy, moist, cook, fresh, savoury, hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/varied diet</p>		<p>mechanism, lever, linkage, pivot, slot, bridge, guide system, input, process, output linear, rotary, oscillating, reciprocating</p>	
<b>Year 5/6 (Oak) Cycle A Topic</b>		<b>Building Bridges</b>	<b>Moving Mouth Puppet</b>		<b>Fairground</b>	
<b>Key Learning</b>		<p>Understand how to strengthen, stiffen and reinforce 3-D frameworks.</p> <p>Know and use technical vocabulary relevant to the project.</p>	<p>Produce a 3-D textile product from a combination of accurately made pattern pieces, fabric shapes and different fabrics.</p> <p>Understand how fabrics can be strengthened, stiffened and reinforced where appropriate.</p> <p>Know and use technical vocabulary relevant to the project.</p>		<p>Understand and use electrical systems in their products linked to science coverage.</p> <p>Know and use technical vocabulary relevant to the project.</p> <p>Understand that mechanical and electrical systems have an input, process and an output.</p> <p>Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement.</p> <p>Know and use technical vocabulary relevant to the project.</p>	
<b>Vocabulary</b>		<p>frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent</p>	<p>seam, seam allowance, wadding, reinforce, right side, wrong side, hem, template, pattern pieces, name of textiles and fastenings used, pins, needles, thread, pinking shears, fastenings</p>		<p>pulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor, circuit, switch, circuit diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, output</p>	

Year 5/6 (Oak) Cycle B Topic	Moving Toys and Cam Mechanisms		Design and make a bag (Art- printing link)			Burgers
<b>Key Learning</b>	<p>Understand that mechanical and electrical systems have an input, process and an output.</p> <p>Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement.</p> <p>Know and use technical vocabulary relevant to the project.</p>		<p>Produce a 3-D textile product from a combination of accurately made pattern pieces, fabric shapes and different fabrics.</p> <p>Understand how fabrics can be strengthened, stiffened and reinforced where appropriate.</p> <p>Know and use technical vocabulary relevant to the project.</p>			<p>Know how to use utensils and equipment including heat sources to prepare and cook food.</p> <p>Understand about seasonality in relation to food products and the source of different food products.</p> <p>Know and use relevant technical and sensory vocabulary.</p>
<b>Vocabulary</b>	<p>pulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor, circuit, switch, circuit diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, output</p>		<p>seam, seam allowance, wadding, reinforce, right side, wrong side, hem, template, pattern pieces, name of textiles and fastenings used, pins, needles, thread, pinking shears, fastenings</p>			<p>ingredients, yeast, dough, bran, flour, wholemeal, unleavened, baking soda, spice, herbs fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, shape, sprinkle, crumble</p>