

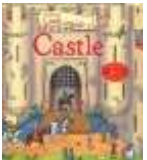





Cranford Park CE Primary School
Subject Overview for Design and Technology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Unit Main Objectives /Skills					
Foundation Stage Objectives	Expressive arts and design <i>'creating with materials'</i> -Share their creations, explaining the process they have used. -Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. -Make use of props and materials when role playing characters in narratives and stories.					
	Physical Development <i>'fine motor skills'</i> -Hold a pencil effectively in preparation for fluent writing – using the tripod grip in almost all cases. -Use a range of small tools, including scissors, paintbrushes and cutlery. -Begin to show accuracy and care when drawing.					
Planning in the moment throughout the year, involves continuous exploration of a large variety of materials and resources, as well as lots of opportunities for designing and evaluating. Continual trial and error throughout play, evaluating their own creating/making/games etc. and changing/adapting as they go.						
<u>Early Years</u>	<u>My New School and On Safari</u> <u>Construction</u> – adding materials <u>Cooking + Nutrition</u> - healthy food <u>Textiles</u> – feeling different fabrics and using words to describe	<u>All About Me Inside Out</u> <u>Construction</u> – Using different materials to create a picture <u>Cooking + Nutrition</u> - Measuring and weighing using non-statutory measures <u>Textiles</u> – sorting fabric colours/textures	<u>Castles</u> <u>Construction</u> – using boxes and 'junk' to create models <u>Cooking + Nutrition</u> - Measuring and weighing using balance scales <u>Textiles</u> –basic running stitch through hessian fabrics	<u>Celebrations and New Life</u> <u>Construction</u> – building with nature materials <u>Cooking + Nutrition</u> - growing plants we can eat <u>Textiles</u> – enhancing with materials	<u>Big Beasts and Mini-Beasts</u> <u>Construction</u> – creating imprints into materials for effect <u>Cooking + Nutrition</u> – healthy eating, basic slicing of fruit. <u>Textiles</u> – using fabric glue to fix/attach decoration	<u>Rainbow Fish and Holidays</u> <u>Construction</u> -adding materials together to form structures <u>Cooking + Nutrition</u> – talking about and trying different types of foods from around the world <u>Textiles</u> – using fabrics for a purpose
Book hooks: (see EYFS reading spine for more in-depth text list for topics)						
Vocabulary:	-Roll, pinch, pat, twist, squeeze, stretch, push, sculpt, mix, join, cut, paint, stick, mark, dab, press, print, measure, slot, connect, material -Cook, bake, temperature, mix, combine, ingredients, measure, weigh, scales, healthy, culture -Thread, fabric, sew, stitch, materials, felt, hessian, texture, glue, attach, decorate					

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<u>Year 1</u>			<p style="text-align: center;"><u>Construction</u> <i>Joining Techniques</i> lunch box</p> <p style="text-align: center;"><u>Design and make a lunch box suitable to hold food.</u></p>	<p style="text-align: center;"><u>Cooking + Nutr.</u> Which part of the plant are we eating? ‘roasted vegetables’</p> <p style="text-align: center;"><u>Design and make a healthy dinner</u></p>		<p style="text-align: center;"><u>Textiles</u> <i>Running Stitch + Laced Running Stitch</i> ‘peg-doll storage bag’</p> <p style="text-align: center;"><u>Design and make a bag suitable for storage of delicate toys.</u></p>
Links back:			<u>Yr R-</u> junk modelling	<u>Yr R-</u> healthy snacks, fruit kebabs		<u>Yr R-</u> Hessian sewing
Links forward:			<u>Yr 3-</u> levers and linkages	<u>Yr 2-</u> healthy dip <u>Yr 3-</u> healthy sandwich <u>Yr 4-</u> fruit salad		<u>Yr 2-</u> attaching decoration <u>Yr 3-</u> joining fabrics <u>Yr 5-</u> 3D product making
Possible book hooks:			The Lighthouse Keeper’s Lunch by Ronda & David Armitage	Oliver’s Vegetables by Vivian French		Lost in the Toy Museum by David Lucas Owen by Kevin Henkes
Skills Vocabulary:			Strength, join, construct, tools, cut, shape, materials, stable, strength,	Nutrient, healthy, balanced diet, ingredients, tasting, chop, slice, plants, fruit, vegetables, bridge and claw technique, safely, grown, underground, evaluate, fruit and vegetable names, roast		Sew, stitch, thread, cotton, needle, fabric, stick, decorate, running stitch, laced running stitch
Design, make & evaluate vocabulary:	Planning, investigating, design, make, user, purpose, evaluate, ideas, product					

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<u>Year 2</u>	<u>Construction</u> <i>Wheels and Axels 'Moon Buggy'</i> <u>Design and make a wheeled vehicle.</u>		<u>Cooking + Nutr.</u> <i>Mixing Ingredients 'Dips and Dippers'</i> <u>Design and make a healthy 'dip'</u>			<u>Textiles</u> <i>Attaching decoration by sewing 'Fabric Nurse Face'</i> <u>Design and make a fabric face</u>
Links back:			Yr R- healthy snacks, fruit kebabs Yr 1- eating parts of the plant			Yr R- Hessian sewing Yr 1- running stich/laced
Links forward:	Yr 4- building structures Yr 5- cams Yr 6- buggies		Yr 3- healthy sandwich Yr 4- fruit salad			Yr 3- joining fabrics Yr 5- 3D product making
Possible book hooks:	Curiosity Mars Rover by Markus Motum Tom's Magnificent Machine by Linda Sarah & Ben Mantle		TeaTime For Pirates! Skullabones Island by Richard Dungworth			The Paper Dolls by Julia Donaldson & Rebecca Cobb I Had a Favorite Dress by Bonnie Ashburn
Vocabulary: (built upon previous years vocab)	Wheels, axel, machine, rotate, fixed, rod, revolve, chassis, template, mark out, pattern pieces, dowel, tubes, cotton reels		Nutritious, dips, senses, taste, texture, smell, appearance, hygiene, combination, layered, blended, marbled, fork secure cutting technique			Joining and finishing techniques, tools, fabrics and components, template, pattern pieces, mark out, finish
Design, make & evaluate vocabulary:	Planning, investigating, research , design, make, user, purpose, evaluate, ideas, product, function , design criteria , design brief					

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<p><u>Year 3</u></p>	<p><u>Cooking + Nutr.</u> Sandwich making with Warburtons <u>Design and make a healthy sandwich...</u> <u>Construction + Nutr.</u> <i>(dietary info. net making)</i> 'Sandwich Packaging' ...and create packaging</p>	<p><u>Textiles</u> <i>Joining fabrics + blanket stitch</i> 'Puppet Show' <u>Design and make a glove puppet.</u></p>				<p><u>Construction</u> <i>Sheet Materials</i> 'Levers and Linkages' <u>Design and make a mechanical poster</u></p>
<p>Links back:</p>	<p><u>Yr R</u>- healthy snacks, fruit kebabs <u>Yr 1</u>- eating parts of the plant <u>Yr 2</u>- mixing ingredients</p>	<p><u>Yr R</u>- Hessian sewing <u>Yr 1</u>- running stitch/laced <u>Yr 2</u>- attaching decoration</p>				<p><u>Yr R</u>- junk modelling <u>Yr 1</u>- joining techniques</p>
<p>Links forward:</p>	<p><u>Yr 4</u>- fruit salad</p>	<p><u>Yr 5</u>- 3D product making</p>				
<p>Possible book hooks:</p>	<p>Carla's Sandwich_by Debbie Herman and Sheila Bailey</p>	<p>Bruno the Tailor by Lars Klinting</p>				<p>Explore Jane Wolfe 'lever' board books. Who lives here? Who says moo? Who's in here? Who's on the farm? Who are you? Peppa Pig 'Recycling Fun' Ladybird</p>
<p>Vocabulary: (built upon previous years vocab)</p>	<p>Packaging, net, information, varied diet, dietary information, ingredients list, combine, spreading, preference</p>	<p>Seam allowance, seam, prototype, secure, features, blanket stitch, over stitch</p>				<p>Recycle, mechanism, mechanical system, moving, lever, linkage, slot, pivot, input, output, generate, loose/fixed pivot, guide/bridge, system, accuracy</p>
<p>Design, make & evaluate vocabulary:</p>	<p>Planning, investigating, research, design, make, user, purpose, evaluate, ideas, product, function, design criteria, design brief, model, appealing, label, drawing, prototype, annotated sketch, functional, innovative</p>					

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<p><u>Year 4</u></p>	<p style="text-align: center;">Construction <i>Building structures Incorporating electricity ‘Torches’</i></p> <p style="text-align: center;"><u>Design and make a 3D structure incorporating a circuit.</u></p>		<p style="text-align: center;">Textiles <i>Create pattern by stitching ‘Patterned Felt Saxon Broach’</i></p> <p style="text-align: center;"><u>Design and make a stitched pattern on felt, with a fastening to attach.</u></p>			<p style="text-align: center;">Cooking + Nutr. <i>Budget and Buy cutting/peeling fruit ‘Fruit Salad’</i></p> <p style="text-align: center;"><u>Design and make a healthy pudding.</u></p>
<p>Links back:</p>	<p><u>Yr 2-</u> wheels and axels</p>		<p><u>Yr R,1,2,3-</u> stitches learnt</p>			<p><u>Yr R-</u> healthy snacks, fruit kebabs <u>Yr 1-</u> eating parts of the plant</p>
<p>Links forward:</p>	<p><u>Yr 5-</u> cams <u>Yr 6-</u> buggies</p>		<p><u>Yr 6-</u> embroidery</p>			<p><u>Yr 2-</u> mixing ingredients</p>
<p>Possible book hooks:</p>	<p style="text-align: center;">Edison by Torben Kuhlmann</p>		<p style="text-align: center;">Pockets by Jennifer Armstrong</p>			<p style="text-align: center;">Oliver’s Fruit Salad by Vivian French</p>
<p>Vocabulary: (built upon previous years vocab)</p>	<p>Series circuit, fault, connection, toggle switch, push-to-make switch, push-to-break switch, battery, battery holder, bulb, light emitting diode (LED), bulb holder, wire, insulator, conductor, crocodile clip, control,</p>		<p>Names of fabrics, fastening, compartment, button, structure, finishing technique, strength, weakness, stiffening, applique</p>			<p>Seasonality, analyse, reared, caught, processed, fresh, grown, frozen, tinned, harvested healthy/varied diet</p>
<p>Design, make & evaluate vocabulary:</p>	<p style="text-align: center;">Planning, investigating, research, design, make, user, purpose, evaluate, ideas, product, function, model, appealing, label, drawing, prototype, annotated sketch, functional, innovative, design criteria, design brief, sensory evaluations</p>					

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<u>Year 5</u>		<u>Construction</u> <i>Cams</i> 'Earth and Space' <u>Design and make a moving resource using cams and followers</u>		<u>Cooking + Nutr.</u> <i>Food from another Culture</i> 'Italian Pizzeria' <u>Design, prepare and make a savoury dinner using a range of cooking techniques.</u>		<u>Textiles</u> <i>Batik</i> 'Cushions' <u>Design and make a 3D product, experimenting with dye and pattern creating.</u>
Links back:		<u>Yr 2-</u> wheels and axels <u>Yr 4-</u> building structures		<u>Yrs 1-4-</u> different cutting techniques learnt		<u>Yr R-</u> Hessian sewing <u>Yr 1-</u> running stich/laced <u>Yr 2-</u> attaching decoration <u>Yr 3-</u> joining fabrics
Links forward:		<u>Yr 6-</u> buggies		<u>Yr 6-</u> combining ingredients		
Possible book hooks:		There's No Place Like Space by Tish Rabe (Dr.Suess Series)		Every Night is Pizza Night! By Kenji Lopez-Alt		Sewing the Rainbow: A Story about Gilbert Baker by Gayle. E Pitman
Vocabulary: (built upon previous years vocab)		Mechanism, lever, linkage, pivot, slot, bridge, guide system, input, process, output linear, rotary, gear, rotation		Savoury, cut and shape, grate, culture, yeast, dough, wholemeal, unleavened, baking soda, spice, herbs, fat, sugar, carbohydrate, protein, vitamins, gluten, dairy, allergy, intolerance, fold, knead, rubbing in, roll out, shape, sprinkle, crumble		Batik, wax, canting, resist, dye, temperature, resist, transfer, ink, wadding, reinforce, right side, wrong side, hem, name of textiles & fastenings used
Design, make & evaluate vocabulary:	Planning, investigating, research, design, make, user, purpose, evaluate, ideas, product, function, functionality , model, appealing, label, drawing, prototype, annotated sketch, functional, innovative, design criteria, design brief, design specification , sensory evaluations, authentic , mock-up , design decisions					

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<p><u>Year 6</u></p>	<p><u>Cooking + Nutr.</u> <i>Combining ingredients</i> ‘Rations’</p> <p><u>Adapt, design and make war time recipes.</u></p>				<p><u>Construction</u> <i>Incorporating electricity</i> ‘Buggies’</p> <p><u>Design and make a moving vehicle with electricity</u></p>	<p><u>Textiles</u> <i>Embroidery</i> ‘Pennants’</p> <p><u>Design and make an embroidered decorative product</u></p>
<p>Links back:</p>	<p><u>Yr 5-</u> cooking techniques</p>				<p><u>Yr 2-</u> wheels and axels <u>Yr 4-</u> building structures <u>Yr 5-</u> cams</p>	<p><u>Yr R,1,2,3-</u> stitches learnt <u>Yr 4-</u> creating patterns</p>
<p>Possible book hooks:</p>	<p>A Day in the Life of a... World War II Evacuee by Alan Childs (reference to rations pages 7, 14, 15, 17)</p>				<p>Bruno the Carpenter_by Lars Klinting Simple Machines: Wheels, Levers, and Pulleys by David A. Adler</p>	<p>Sewing Stories: Harriet Powers' From Slave to Artist Reading by Barbara Herkert</p>
<p>Vocabulary: <u>(built upon previous years vocab)</u></p>	<p>Whisk, beat, appropriate combining techniques, sensory characteristics, adapt, ration, different cooking techniques e.g. fry/bake/boil etc.</p>				<p>Different types of switches: <i>Reed, toggle, tilt, switch, push-to-make, push-to-break.</i> USB cable, motor, wire, program, system, input device, output device, series circuit, parallel circuit, reinforce, bradawl, drill,</p>	<p>Embroidery, appropriate, best suited stitching, quality</p>
<p>Design, make & evaluate vocabulary:</p>	<p>Planning, investigating, research, design, make, user, purpose, evaluate, ideas, product, function, functionality, model, appealing, label, drawing, prototype, annotated sketch, functional, innovative, design criteria, design brief, design specification, sensory evaluations, authentic, mock-up, design decisions</p>					