



Ings Farm Primary Long Term Plan

**Design & Technology
2019-2020**

**Skills &
Processes**

- | | |
|---|-----------------------|
| 1 | structures |
| 2 | mechanical systems |
| 3 | electrical systems |
| 4 | pneumatic systems |
| 5 | textiles |
| 6 | cooking and nutrition |

Skills & Processes involved - Indicate by term or **C** for continuous

Year	Term 1	Term 2	Term 3	1	2	3	4	5	6
Nursery	<p>Continuous provision: Construction: Wooden blocks, bricks, Duplo, lego, sticklebricks, mobilo people, vehicles, animals, images - posters, photographs, maps, routes, drawings, cameras, books - non-fiction and fiction, clipboards and paper, road mats, fabric, mirrors, telephones, walkie-talkies, tape measures, tools, hard hats, wheelbarrows, trolleys, tyres, planks, characters from stories, name labels for displaying finished products.</p> <p>Mark Making: Mark makers - pencils, pens, felt tips, crayons, chalk, tools - scissors, rulers, hole punch, staplers, paper clips, treasury tags, glue sticks, paper - varying sizes, plain, lined, card, postcards, envelopes, notepads, diaries, white boards, aqua draw mats, magnetic letters, clipboards, alphabet frieze, high frequency words, name cards, books - fiction, non-fiction, dictionaries, writing templates - letter, story, recipes, instructions, menus cards, appointment books, messy play trays - sand, foam, cornflour.</p> <p>Creative: Variety of materials - boxes, cartons, wood, fabric, straws, sticks, ribbon, wool, bottle tops, a variety of paper - card, sugar paper, tissue paper, cellophane, foil, magazines, newspaper, fasteners - paper clips, split pins, elastic bands, staplers, clear tape, masking tape, string, glue, scissors, rulers, pencils, pens, books - non-fiction and fiction, clipboards and paper, pipe cleaners, sequins, beads, buttons, braid, glitter, characters from stories, name labels for displaying finished products.</p>			<p>Early Learning Goal (by the end of Reception): Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</p>					
Reception									
Year 1	<p>Food Fruit kebabs drawing home school local community</p>	<p>Structures Playground equipment mock-ups playgrounds gardens</p>	<p>Mechanisms Levers - moving pictures talking drawing</p>	2	3				1
Year 2	<p>Textiles Puppets <i>Running stitch</i> <i>3D textiles product made from 2 identical fabric shapes</i> templates drawing school</p>	<p>Food - Bangladesh Geography topic talking school</p>	<p>Mechanisms Wheels and axles Information Communication Technology mock-ups industry</p>		3			1	2
Year 3	<p>Mechanical systems Levers and linkages - Toys prototypes home</p>	<p>Textiles Purses - Romans <i>Back stitch</i> <i>A single fabric shape that can be used to make a 3D textiles product</i> pattern pieces culture</p>	<p>Pneumatic systems Saxons topic cross-sectional and exploded diagrams wider environment</p>		1		3	2	
	<p>Food all year: small groups to work with Mrs Huddleston fortnightly learning to 'prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques'</p>								
Year 4	<p>Electrical systems Prototypes computer-aided design leisure industry wider environment</p>	<p>Structures Shell structures - WW2 topic discussion home</p>	<p>Food Healthy Eating Bars annotated sketches culture</p>	2		1			3

	Y4 and Y5 Science Ambassadors club (STEM linked project) weekly.								
Year 5	Food USA annotated sketches school	Structures Bridges - Visit to the Baltic cross-sectional and exploded diagrams leisure	Textiles Rainforest animals Blanket stitch 3D textiles project made from a combination of fabric shapes. pattern pieces enterprise - The 'Fiver' project	1				2	3
Year 6	Mechanical systems prototypes cross-sectional and exploded diagrams industry	Food Chinese annotated sketches wider environment	Electrical systems annotated sketches industry enterprise						
	The Bloodhound Project?								
Whole School									
working context	KS1 home school gardens local community industry playgrounds other(please specify)		KS2 home school leisure culture enterprise industry wider environment other(please specify)						
Design techniques	KS1 talking drawing templates mock-ups Information Communication Technology		KS2 discussion annotated sketches cross-sectional and exploded diagrams prototypes pattern pieces computer- aided design						