



Ings Farm Primary Long Term Plan

**Design & Technology
2021-2022**

**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
Year 1	Food Fruit kebabs drawing home school local community	Structures Playground equipment mock-ups playgrounds gardens	Mechanisms Levers - moving pictures talking drawing	2	3				1
Year 2	Textiles Puppets <i>Running stitch</i> <i>3D textiles product made from 2 identical fabric shapes</i> templates drawing school	Food - Bangladesh Geography topic talking school	Mechanisms Wheels and axles Information Communication Technology mock-ups industry		3			1	2
Year 3	Mechanical systems Levers and linkages - Charlie & the Chocolate Factory (Stage Design) prototypes home Textiles Christmas Stockings (upcycle materials) <i>Running/Back stitch</i> <i>A single fabric shape that can be used to make a 3D textiles product</i> pattern pieces culture <i>(2 D&T topic covered in Term 1 to link with other curriculum areas)</i>		Pneumatic systems Saxons topic cross-sectional and exploded diagrams wider environment This year linked to the Romans. Food small groups to work with Mrs Huddleston learning to 'prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques'		1		3	2	
Year 4	Structures Shell structures - WW2 topic discussion home Electrical systems Prototypes computer-aided design leisure industry wider environment		Food Vegetable soup and bread rolls annotated sketches school culture	2		1			3

	(2 D&T topic covered in Term 1 to link with other curriculum areas)								
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		Food Chinese annotated sketches wider environment	Electrical systems (buzzer games - science link) annotated sketches industry enterprise Mechanical systems prototypes cross-sectional and exploded diagrams industry						
Whole School	Science Ambassadors (Y4) All year	STEM Buddy and Mentor programme Y4, Y5, Y6 All year							
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						