Design and Technology Curriculum Implementation

	Autumn		Spring	Summer	
Nursery	**Structures: Marvellous me** Product: Build a nest for an owl Areas of Learning: EAD (construction)	**Christmas** Product: Christmas card Areas of Learning: EAD (construction); PD (use of equipment and tools)	**Mechanisms: To the rescue** Knowledge and understanding: exploring vehicle toys Area of Learning: UW (technology)	**Mechanisms: On the beach** Knowledge and understanding: exploring lights/torches Area of Learning: UW (tech)	**Food and Nutrition: Food glorious food** Product: sandwich, pizza, porridge Techniques: mixing Areas of Learning: PD; EAD
Reception	**Textiles: Superheroes** Product: superhero outfit Technique: joining fabrics Areas of Learning: EAD; PD	**Christmas** Product: Christmas decorations Areas of Learning: EAD; PD	**Textiles: Pets** Product: blanket for pet Technique: weaving Areas of Learning: EAD; PD	**Food and Nutrition: Once upon a time** Product: Build a house for the 3 little pigs; cook gingerbread men Areas of Learning: EAD; PD	**Structures: Blast off!** Product: Build a rocket Area of Learning: EAD
Year 1	**Food and Nutrition** Product: fruit salad Techniques: cutting and peeling Cross curricular: English (instructions for party food for Kipper's birthday)		**Structures: stronger, stiffer and more stable** Product: playground equipment; chair for Goldilocks Knowledge and understanding: build structures, exploring how they can be made stronger, stiffer and more stable. Cross curricular: English (Goldilocks and the Three Bears from autumn term); Science (everyday materials)	**Mechanisms: levers and sliders** Product: moving picture/card Knowledge and understanding: explore and use mechanisms (levers and sliders). Cross curricular: settings from stories in summer term – e.g. Beegu, Knuffle Bunny, Little Penguin Lost	
Year 2	**Food and Nutrition** Product: healthy sandwich using bread, wraps, rolls or pitta bread Techniques: cutting, peeling and grating (spreading) Cross-curricular: English (instructions)		**Mechanisms: wheels and axles** Product: vehicles Knowledge and understanding: explore and use mechanisms (wheels and axles). Cross curricular: Science (use of everyday materials)	**Textiles** Product: puppet Techniques: running stitch Cross curricular: History (seaside topic next term); Science (use of everyday materials)	
Year 3	**Food and Nutrition** Product: pizza (using bread/pitta bread/pre-made pizza base) Techniques: peeling, chopping, slicing, grating and spreading		**Structures: shell structures** Product: gift box; desk tidy Knowledge and understanding: apply their understanding of how to strengthen, stiffen and reinforce more complex structures. Cross-curricular: English (magical box from Leon and the Place Between	**Mechanisms: pneumatic systems** Product: moving character (pneumatic systems) linked to English/favourite book Knowledge and understanding: understand and use mechanical systems in their products Cross-curricular: English (character from myth); Science (forces)	
Year 4	**Food and Nutrition** Product: bread Techniques: mixing, kneading and baking Cross-curricular: English (instructions for show off)		**Textiles (pencil case or money wallet)** Product: pencil case; money wallet Techniques: overstitch, fastenings (e.g. zip, button, velcro) and decoration (e.g. buttons, beads, sequins)	**Control** Product: torch/night light Knowledge and understanding: understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]. Cross-curricular: Science (electricity)	

Year 5	**Food and Nutrition** Product: sweet biscuits and/or cakes Techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking Cross-curricular: Science (properties and changes of materials)	**Structure: bridges** Product: bridges Knowledge and understanding: apply their understanding of how to strengthen, stiffen and reinforce more complex structures. Cross-curricular: Science (forces)	**Mechanisms: gears, pulleys or cams** Product: moving toy Knowledge and understanding: understand and use mechanical systems in their products Cross-curricular: Science (forces)
Year 6	**Food and Nutrition** Product: savoury biscuits and/or scones Techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking	**Textiles** Product: pillow with embroidery decoration Techniques: blanket stitch, back stitch	**Control** Product: fairground ride; alarming a vehicle Knowledge and understanding: apply their understanding of computing to program, monitor and control their products. Cross-curricular: Science (electricity)