

Year & Cycle	Autumn	Spring	Summer
A-Year 1&2	<u>Structures - Freestanding structures</u> <ul style="list-style-type: none"> Select materials including reclaimed. Discuss how to make stronger, stiffer, more stable. 	<u>Mechanisms - Sliders and levers</u> <ul style="list-style-type: none"> Choose tools and join paper/card. Explore different levers/sliders. Create working slider/lever with card/paper 	<u>Food - Preparing fruit and vegetables</u> <ul style="list-style-type: none"> Taste/smell fruit and vegetables know where they come from. Eatwell plate Peel slice, grate, squeeze, chop
B-Year 1&2	<u>Food - Preparing fruit and vegetables</u> <ul style="list-style-type: none"> Taste/smell fruit and vegetables know where they come from. Eatwell plate Peel slice, grate, squeeze, chop 	<u>Mechanisms - Wheels and Axles</u> <ul style="list-style-type: none"> Design through drawings Select materials Explore wheels, axles and axel holders. Distinguish between fixed and freely moving axles. 	<u>Textiles - Templates and joining techniques</u> <ul style="list-style-type: none"> Use template to make 2 identical shapes Join fabric (glue/ stitch) Explore finishing techniques (sequins, paints, pens etc)
A-Year 3&4	<u>Food - Healthy and varied diet</u> <ul style="list-style-type: none"> Plan recipes including utensils. Record evaluations of food. Cook savoury food. Know that ingredients are grown, reared or caught. 	<u>Electrical Systems</u> <ul style="list-style-type: none"> Annotated sketches, cross-sectional and exploded diagrams. Include switches/bulbs/ buzzers. Apply computing to control products. 	<u>Structures - Shell structures including CAD.</u> <ul style="list-style-type: none"> Construct strong, stiff shell structures. Nets of cubes/ cuboids/more complex 3D shapes. Measure, mark out, cut, score, shape and assemble with some accuracy.
B-Year 3&4	<u>Mechanical Systems - Levers and linkages</u> <ul style="list-style-type: none"> Make prototypes. Cut, shape & join. Distinguish between fixed and loose pivots. Understand different levers/linkages. 	<u>Food - Healthy and varied diet</u> <ul style="list-style-type: none"> Plan recipes including utensils. Record evaluations of food. Cook savoury food. Know that ingredients are grown, reared or caught. 	<u>Textiles - 2-D shape to 3-D product</u> <ul style="list-style-type: none"> Learn about a designer. Strengthen, stiffen and reinforce fabrics. Securely join fabric. Understand the need for patterns and seam allowances.
A-Year 5&6	<u>Food - Celebrating culture and seasonality</u> <ul style="list-style-type: none"> Measuring out, preparing and combining ingredients. Plan recipes including utensils. Use heat sources to cook. <p>Learn about seasonality and source of products.</p>	<u>Textiles</u> <ul style="list-style-type: none"> Work within given time, resources, cost. Combine different fabrics. Strengthen stiffen, reinforce 	<u>Structures - Frame Structures</u> <ul style="list-style-type: none"> Strengthen, stiffen and reinforce 3-D frameworks. Accurately measure, mark out, cut, shape and join to make frameworks. Carry out appropriate tests.
B-Year 5&6	<u>Food - Celebrating culture and seasonality</u> <ul style="list-style-type: none"> Measuring out, preparing and combining ingredients. Plan recipes including utensils. Use heat sources to cook. <p>Learn about seasonality and source of products.</p>	<u>Electrical Systems</u> <ul style="list-style-type: none"> Connect electrical components to produce a reliable, functional product. Create and modify a computer control program. Investigate famous electrical inventors. 	<u>Mechanical Systems - Pulleys or gears</u> <ul style="list-style-type: none"> Drawings from different views. Know mechanical and electrical systems have input, process and output. <p>Know gears and pulleys can speed up, slow down or change the direction.</p>