



Key Stage 1		
Term	Year A	Year B
Autumn	Structures (Investigating different techniques to make structures stronger. Joining materials appropriately for different situations.)	Explore existing products (Investigating how existing products have been made, talking about their evaluation of products and creating designs from their findings.)
Spring	Mechanisms (Experimenting with levers and sliders to find different ways of moving things. Cutting and folding techniques.)	Mechanisms (Making vehicles with construction kits. Using a range of materials to make wheels/axles.)
Summer	Food (Investigating diet/where food comes from. Learning simple chopping and measuring techniques.)	Textiles (Joining, decorating and colouring fabrics. Cutting out fabrics using a template.)

Lower Key Stage 2		
Term	Year A	Year B
Autumn	Food (Exploring seasonality, where food is grown and healthy eating choices. Following recipes and combining a range of ingredients.)	Structures (Create and strengthen shells and frames with diagonal struts.)
Spring	Mechanical systems (Using gears, pulleys, levers and linkages.)	Textiles (Join fabrics using running stitch and blanket stitch. Prototype patterns using J cloths.)
Summer	Investigating existing products (Investigating and analysing existing products. Researching the needs of the user and using information gathered to create own design criteria.)	Electrical Systems (Incorporating a circuit into a model using switches, bulbs and buzzers. Using ICT to control products.)

Upper Key Stage 2		
Term	Year A	Year B
Autumn	Food (Preparing food products taking into account the properties of ingredients and sensory characteristics. Using a range of cooking techniques.)	Evaluating existing products (Researching and evaluating existing products -including book and web based research. Understanding key influencers of design. Giving reports using technical vocabulary.)
Spring	Textiles (Creating 3D products using pattern pieces and seam allowance. Joining fabrics using a range of stitches.)	Mechanical systems (Using cams, pulleys and gears. Programming, monitoring and controlling using ICT.)
Summer	Structures (Using a hand drill and bradawl. Cutting strip wood and dowel accurately to 1mm.)	Electronic systems (Using switches, bulbs, buzzers and motors. Programming, monitoring and controlling using ICT.)