

3. Overview: Whole School

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn	Cooking & nutrition <ul style="list-style-type: none"> Designing and making with food Understanding Health and nutrition Combining tastes and textures to make a product Using basic cutting tools <i>Fruit kebabs</i>	Textiles: Marking out and joining fabric <ul style="list-style-type: none"> Making a textile product by marking out, cutting and joining fabric <i>Finger puppets (animals)</i>	Free Standing Structures <ul style="list-style-type: none"> Understanding ways in which structures can be made stable Understand how to stiffen materials <i>Photo frame (as a present)</i>	Mechanisms: Linkages <ul style="list-style-type: none"> Understand how a range of linkage type mechanisms work Assemble a range of mechanisms including pop ups, spinners, sliders, levers and tabs Apply to the design of a pop up book <i>Pop Up Book with moving parts (Guide To The Rainforest)</i>	Structures: Musical instruments <ul style="list-style-type: none"> Investigate instruments from different times and cultures Understand how shape and materials used can alter sound Investigate a range of finishing techniques <i>Rainmaker</i>	Structures <ul style="list-style-type: none"> Understand why structures sometimes fail Investigate and use techniques to reinforce and strengthen structures Design and make a structure for a specific tasks <i>Design and build an aqueduct</i>
Spring	Static Structures <ul style="list-style-type: none"> Creating models from sheet and reclaimed materials Understand about basic structures and how they can be made stronger/more stable Use range of fixing techniques <i>Castles</i>	Mechanisms: Wheels, axels, pulleys and levers <ul style="list-style-type: none"> Joining materials with moving joints Understand how wheels and axels work Understand winding mechanisms <i>Moving vehicle (fire engine)</i>	Mechanisms and control: Pneumatics <ul style="list-style-type: none"> Consider different types of pneumatic structures Know about the movement of simple mechanisms , such as levers and linkages <i>Moving Monster</i>	Textiles: Reinforcing fabric <ul style="list-style-type: none"> Investigate ways of reinforcing fabric, e.g. over stitching, running stitch Create and use a pattern Develop decorative techniques and fastenings e.g. applique <i>Purse for the Rio carnival</i>	Mechanisms: Moving toys using cams, wheels and axels <ul style="list-style-type: none"> Understand how mechanisms can be used to produce movement Cut, shape and join components, selecting tools for a specific purpose <i>Roman siege machines</i>	Mechanisms: electrical and computer control <ul style="list-style-type: none"> Understand how products can be driven by electricity Use motors to control speed and direction of movement Develop structures with cladding and finishing techniques
Summer	Mechanisms: Pushes, pulls and levers <ul style="list-style-type: none"> Understand simple mechanisms that create movement e.g. simple levers and sliders <i>A book with moving parts (transport)</i>	Textiles: Using a paper pattern, joining fabric <ul style="list-style-type: none"> Use a graphics programme to design a space suit Use a simple paper pattern to draw around and cut out fabric Use simple joining techniques <i>Space suit for an Astronaut</i>	Cooking & nutrition <ul style="list-style-type: none"> Food preparation techniques Combining appearance, flavour and texture Understand the balanced plate model for healthy eating <i>A Greek Salad</i>	Electrical Control <ul style="list-style-type: none"> Draw on understanding of simple electrical circuits and switches Join components, cut and shape material with precision <i>An alarm system for a precious artefact</i>	Cooking and Nutrition <ul style="list-style-type: none"> Understand the function and properties of materials Identify, select and use food tools and techniques safely Understand food hygiene <i>Making bread</i>	Textiles <ul style="list-style-type: none"> Design for a range of needs – appearance, safety, size, warmth Use patterns, templates and detailed working drawings Develop finishing techniques <i>T Shirts</i>

