



Year 4

National Curriculum Aims and Objectives

- Design:**
- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
 - generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
- Make:**
- select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
 - select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities
- Evaluate:**
- Investigate and analyse a range of existing products
 - evaluate their ideas and products against their own design criteria and consider the views of others to improve their work • understand how key events and individuals in design and technology have helped shape the world
- Cooking and Nutrition:**
- Understand and apply the principles of a healthy and varied diet
 - prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques • understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed
- Technical knowledge:**
- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures
 - understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
 - understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
 - apply their understanding of computing to program, monitor and control their products

Autumn	Spring	Summer
<p>Textiles/Sheet Materials</p> <p>Prototype a product using J cloths. Use appropriate decoration techniques e.g. applique (glued or simple stitches). Understand seam allowance. Join fabrics using running stitch, over sewing, back stitch. Explore fastenings and recreate some e.g. sew on buttons and make loops</p>	<p>Sheet Materials</p> <p>Use linkages to make movement larger or more varied. Use and explore complex pop ups.</p> <p>Construction / Technical Knowledge</p> <p>Create shell or frame structures, strengthen frames with diagonal struts. Incorporate a circuit with bulb or buzzer into a model. Choose materials based on their functional properties and aesthetic qualities.</p>	<p>Food</p> <p>Analyse the taste, texture, smell, and appearance of a range of foods. Measure and weigh ingredient appropriately. Prepare and cook a range of predominately savoury dishes using a range of cooking techniques Make healthy eating choices from and understanding of a balanced diet. Understanding seasonality and know where and how ingredients are grown and captured.</p>

