



Year 5

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 align="center">Textiles/Sheet Materials</p> <p>Understand pattern layout. Decorate textiles appropriately Know useful properties.</p> <p align="center">Sheet Materials</p> <p>Cut slots Cut accurately and safely to a marked line Join and combing materials with temporary, fixed or moving joining's Choose an appropriate sheet material for the purpose</p>	<p align="center">Construction / Technical Knowledge</p> <p>Use hand drill to drill tight and loose fit holes. Cut strip wood, dowel, square Join materials using appropriate methods Incorporate motor and switch into a model. Control a model using an ICT control programme. Use a cam to make an up and down mechanism. Use a glue gun with close supervision. Choose materials based on their functional purposes and aesthetic qualities.</p>	<p align="center">Food</p> <p>prepare and select foods for a particular purpose. Taste a range of ingredients and food items to develop a sensory food vocabulary for use when designing. Weigh and measure using scales. Cut and shape ingredients (eg grating) Join and combine foods (beating or rubbing in) Work safely and hygienically Understand how to feed themselves and others affordably in the future.</p>

