

Year 5 Design Technology Objectives

| | DT Focus | Unit Title | National Curriculum Objectives |
|-----------------|-----------------------------------|----------------------|---|
| Autumn 2 | Textiles | Fashion and Textiles | <p>KS2 - 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</p> <p>KS2 - generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</p> <p>KS2 - select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</p> <p>KS2 - 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</p> <p>KS2 - investigate and analyse a range of existing products</p> <p>KS2 - evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p> |
| Spring 1 | Mechanisms and Mechanical systems | Chinese Inventions | <p>KS2 - 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</p> <p>KS2 - generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</p> <p>KS2 - 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</p> <p>KS2 - evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p> <p>KS2 - understand how key events and individuals in design and technology have helped shape the world</p> <p>KS2 - understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</p> |
| Spring 2 | Structures | Bridges | <p>KS2 - 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</p> <p>KS2 - generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</p> <p>KS2 - evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p> <p>KS2 - apply their understanding of how to strengthen, stiffen and reinforce more complex structures</p> |
| Summer 2 | Food and Nutrition | Great British Dishes | <p>KS2 - understand and apply the principles of a healthy and varied diet</p> <p>KS2 - prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</p> <p>KS2 - understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</p> |

