



Year	Textiles	Structures	KSI
1	<ul style="list-style-type: none"><li>• select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li><li>• select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li></ul>	<ul style="list-style-type: none"><li>• build structures, exploring how they can be made stronger, stiffer and more stable</li><li>• select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li></ul>	<p><b>Design</b></p> <ul style="list-style-type: none"><li>• design purposeful, functional, appealing products for themselves and other users based on design criteria</li><li>• generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</li></ul> <p><b>Make</b></p> <ul style="list-style-type: none"><li>• select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li><li>• select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li></ul> <p><b>Evaluate</b></p> <ul style="list-style-type: none"><li>• explore and evaluate a range of existing products</li><li>• evaluate their ideas and products against design criteria</li></ul> <p><b>Technical knowledge</b></p> <ul style="list-style-type: none"><li>• build structures, exploring how they can be made stronger, stiffer and more stable</li><li>• explore and use mechanisms [for example, levers, sliders, wheels and axles] in their products</li></ul> <p><b>Cooking and nutrition</b></p> <ul style="list-style-type: none"><li>• use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from</li></ul>
2	<p><b>Nutrition</b></p> <ul style="list-style-type: none"><li>• use the basic principles of a healthy and varied diet to prepare dishes</li><li>• understand where food comes from</li><li>• select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their</li></ul>	<p><b>Mechanical</b></p> <ul style="list-style-type: none"><li>• explore and use mechanisms [for example, levers, sliders, wheels and axles] in their products</li><li>• select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li></ul>	

Year

3

Textiles

**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

Structures

**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

**Technical Knowledge**

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures

KS2

**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

Year 4	<p><u>Nutrition</u></p> <ul style="list-style-type: none"> <li>understand and apply the principles of a healthy and varied diet</li> <li>prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> </ul>	<p><u>Computer programming</u></p> <p><u>Technical Knowledge</u></p> <ul style="list-style-type: none"> <li>apply their understanding of computing to program, monitor and control their products</li> </ul>	<p>qualities</p> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>investigate and analyse a range of existing products</li> <li>evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>understand how key events and individuals in design and technology have helped shape the world</li> </ul>
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Year 5	<p><u>Textiles</u></p> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>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</li> </ul>	<p><u>Mechanical</u></p> <p><u>Technical Knowledge</u></p> <ul style="list-style-type: none"> <li>understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> </ul>	<p><u>Technical knowledge</u></p> <ul style="list-style-type: none"> <li>apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> <li>understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</li> <li>apply their understanding of computing to program, monitor and control their products</li> </ul>
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Year	<u>Nutrition</u>	<u>Structures</u>	<u>Electrical systems</u>	
6	<ul style="list-style-type: none"> <li>understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</li> </ul>	<p><b>Technical Knowledge</b></p> <ul style="list-style-type: none"> <li>apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> </ul>	<p><b>Technical Knowledge</b></p> <ul style="list-style-type: none"> <li>understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</li> </ul>	<p><b>Cooking And Nutrition</b></p> <ul style="list-style-type: none"> <li>understand and apply the principles of a healthy and varied diet</li> <li>prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</li> </ul>