

**YEAR 3**

<p><b>Cookery</b> <i>Designing \ healthy cous cous salad and packaging</i></p>	<p><b>Construction</b> <i>Clay trinket pots</i></p>	<p><b>Textiles</b> <i>Woven bracelets</i></p>	
<ul style="list-style-type: none"> <li>-Generate ideas for an item, considering its purpose and the user/s.</li> <li>-To order the main stages of making a product.</li> <li>-Identify a purpose and establish design criteria for a successful product.</li> <li>-Explain how well a product has been designed, what materials have been used and different construction techniques.</li> <li>-Make drawings with labels when designing.</li> <li>-Prepare and cook savoury dishes using a range of cooking techniques</li> <li>-To select a range of tools and techniques for making my product safely.</li> </ul>	<ul style="list-style-type: none"> <li>-Generate ideas for an item, considering its purpose and the user/s.</li> <li>-To order the main stages of making a product.</li> <li>-Identify a purpose and establish design criteria for a successful product.</li> <li>-Explain how well a product has been designed, what materials have been used and different construction techniques.</li> <li>-Make drawings with labels when designing.</li> <li>-To select a range of tools and techniques for making my product safely.</li> <li>-To explain choice of equipment and materials in relation to techniques and skills that will be used.</li> </ul>	<ul style="list-style-type: none"> <li>-Generate ideas for an item, considering its purpose and the user/s.</li> <li>-To order the main stages of making a product.</li> <li>-Identify a purpose and establish design criteria for a successful product.</li> <li>-Explain how well a product has been designed, what materials have been used and different construction techniques.</li> <li>-Make drawings with labels when designing</li> <li>-To select a range of tools and techniques for making my product safely.</li> </ul>	<p><b>Design</b> <b>Make</b> <b>Evaluate</b> <b>Technical Knowledge</b></p>

<ul style="list-style-type: none"> <li>-To explain choice of equipment and materials in relation to techniques and skills that will be used.</li> <li>-Select from and use finishing techniques suitable for the product they are creating.</li> <li>-Investigate a range, ingredients relevant to their project.</li> <li>-Test/taste their product against the original design criteria.</li> <li>-Evaluate the ongoing work and the final product with reference to the design criteria and the views of others.</li> <li>- To prepare and cook a variety of dishes safely and hygienically.</li> <li>-To begin to explore what a healthy diet is made up from.</li> <li>- Know about a range of fresh and processed ingredients appropriate for their product.</li> <li>-To begin to understand that drink and food provided energy needed for the body.</li> </ul>	<ul style="list-style-type: none"> <li>-Select from and use finishing techniques suitable for the product they are creating.</li> <li>-Investigate a range, ingredients relevant to their project.</li> <li>-Test/taste their product against the original design criteria and with the intended user.</li> <li>-Evaluate the ongoing work and the final product with reference to the design criteria and the views of others.</li> <li>-Apply his/her understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>- Identify basic equipment, materials, components and techniques.</li> </ul>	<ul style="list-style-type: none"> <li>-To explain choice of equipment and materials in relation to techniques and skills that will be used.</li> <li>-Select from and use finishing techniques suitable for the product they are creating.</li> <li>-Investigate a range, ingredients relevant to their project.</li> <li>-Test/taste their product against the original design criteria and with the intended user.</li> <li>-Evaluate the ongoing work and the final product with reference to the design criteria and the views of others.</li> <li>-Know how to strengthen, stiffen and reinforce existing fabrics.</li> <li>-Understand how to securely join two pieces of fabric together.</li> <li>-Understand the need for patterns and seam allowances.</li> </ul>	
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# YEAR 4

In addition to previous learning, pupils should learn to...

<b>Cookery</b> <i>Afternoon Tea</i>	<b>Electronics</b> <i>Wire loop game</i>	<b>Mechanisms</b> <i>Levers and linkages</i>	
<ul style="list-style-type: none"> <li>-Generate ideas, considering the purposes and user/s for which they are designing.</li> <li>- To order the main stages of making a product and develop a clear idea of what has to be done.</li> <li>-To establish a design criteria and plan how to use equipment, materials and processes.</li> <li>-To identify strengths of your design and an area for development.</li> <li>-Make labelled drawings from different views showing specific features</li> <li>-To explain my choice ingredients according to aesthetic.</li> <li>-Select and use appropriate tools to measure, mark out, cut, score, shape and combine with some accuracy related to their products.</li> </ul>	<ul style="list-style-type: none"> <li>-Generate ideas, considering the purposes and user/s for which they are designing.</li> <li>- To order the main stages of making a product and develop a clear idea of what has to be done.</li> <li>-To establish a design criteria and plan how to use equipment, materials and processes.</li> <li>-To identify strengths of your design and an area for development.</li> <li>-Make labelled drawings from different views showing specific features</li> <li>-To explain my choice of materials and components according to aesthetic and function.</li> <li>-Select and use appropriate tools to measure, mark out, cut, score, shape and combine with some accuracy related to their products.</li> </ul>	<ul style="list-style-type: none"> <li>-Generate ideas, considering the purposes and user/s for which they are designing.</li> <li>- To order the main stages of making a product and develop a clear idea of what has to be done.</li> <li>-To establish a design criteria and plan how to use equipment, materials and processes.</li> <li>-To identify strengths of your design and an area for development.</li> <li>-Make labelled drawings from different views showing specific features</li> <li>-To explain my choice of materials and components according to aesthetic and function.</li> </ul>	<p>Design</p> <p>Make</p> <p>Evaluate</p> <p>Technical Knowledge</p>

<p>-Explain their choice of materials according to functional properties and aesthetic qualities.</p> <p>-Select from and use materials and components, including ingredients, construction and electrical components according to their function and properties.</p> <p>-Investigate and evaluate a range of products including the ingredients, materials, components and techniques that are used.</p> <p>-Test and evaluate their own products against design criteria and the intended user and purpose.</p> <p>-Evaluate their ideas and products against their own design criteria and identify the strengths and areas for improvement in their work.</p> <p>- To prepare and cook a variety of dishes safely and hygienically, using a heat source where appropriate.</p>	<p>-Explain their choice of materials according to functional properties and aesthetic qualities.</p> <p>-Select from and use materials and components, including ingredients, construction and electrical components according to their function and properties.</p> <p>-Investigate and evaluate a range of products including the ingredients, materials, components and techniques that are used.</p> <p>-Test and evaluate their own products against design criteria and the intended user and purpose.</p> <p>-Evaluate their ideas and products against their own design criteria and identify the strengths and areas for improvement in their work.</p> <p>-Understand and use electrical systems in their products linked to science coverage.</p> <p>-Apply their understanding of computing to program and control their products.</p>	<p>-Select and use appropriate tools to measure, mark out, cut, score, shape and combine with some accuracy related to their products.</p> <p>-Explain their choice of materials according to functional properties and aesthetic qualities.</p> <p>-Select from and use materials and components, including ingredients, construction and electrical components according to their function and properties.</p> <p>-Investigate and evaluate a range of products including the ingredients, materials, components and techniques that are used.</p> <p>-Test and evaluate their own products against design criteria and the intended user and purpose.</p> <p>-Evaluate their ideas and products against their own design criteria and identify the strengths and areas for improvement in their work.</p>	
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<ul style="list-style-type: none"> <li>- To begin to explain how a healthy diet is made up from a variety and balance of different foods.</li> <li>-Know about a range of fresh and processed ingredients appropriate for their product, and whether they are grown, reared or caught.</li> <li>-To explain which foods and drink assist us in maintaining an active lifestyle.</li> </ul>	<ul style="list-style-type: none"> <li>- Understand and use electrical systems in his/her products e.g. series circuits incorporating switches, bulbs, buzzers and motors</li> </ul>	<ul style="list-style-type: none"> <li>-Explore and use wheels, axles and axle holders.</li> <li>-Distinguish between fixed and freely moving axles.</li> <li>- Understand and use mechanical structures in his/her products using levers and linkages</li> </ul>	
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# YEAR 5

In addition to previous learning, pupils should learn to...

<b>Cookery</b> <i>Pizza tasting, design and making (European link)</i>	<b>Mechanisms</b> <i>Toys using cams</i>	<b>Textiles</b> <i>Making pencil case</i>	
<ul style="list-style-type: none"> <li>-Generate, model, develop and communicate ideas through annotated sketches and discussions.</li> <li>-Develop a clear idea of what has to be done, planning how to use materials.</li> <li>- To establish a design criteria and confidently select appropriate materials, tools and techniques.</li> <li>- To identify strengths of your design and areas for development.</li> <li>-Use results of investigations, information sources, when developing design ideas.</li> <li>-To start understanding how much products cost and how sustainable they are.</li> </ul>	<ul style="list-style-type: none"> <li>-Generate, model, develop and communicate ideas through annotated sketches and discussions.</li> <li>-Develop a clear idea of what has to be done, planning how to use materials.</li> <li>- To establish a design criteria and confidently select appropriate materials, tools and techniques.</li> <li>- To identify strengths of your design and areas for development.</li> <li>-Use results of investigations, information sources, when developing design ideas.</li> <li>-To start understanding how much products cost and how sustainable they are.</li> </ul>	<ul style="list-style-type: none"> <li>-Generate, model, develop and communicate ideas through annotated sketches and discussions.</li> <li>-Develop a clear idea of what has to be done, planning how to use materials.</li> <li>- To establish a design criteria and confidently select appropriate materials, tools and techniques.</li> <li>- To identify strengths of your design and areas for development.</li> <li>-Use results of investigations, information sources, when developing design ideas.</li> </ul>	<p><b>Design</b></p> <p><b>Make</b></p> <p><b>Evaluate</b></p> <p><b>Technical Knowledge</b></p>

<ul style="list-style-type: none"> <li>-Produce detailed lists of equipment and fabrics relevant to their tasks.</li> <li>-Write a step-by-step plan, including a list of resources required.</li> <li>-Select from and use, a range of appropriate utensils, tools and equipment accurately to measure and combine appropriate ingredients, materials and resources.</li> <li>-Investigate and analyse products linked to their final product.</li> <li>-Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose.</li> <li>-Compare the final product to the original design specification and record the evaluations.</li> <li>-Consider the views of others to improve their work.</li> <li>- To prepare and cook a variety of dishes safely and hygienically, using a heat source where appropriate.</li> </ul>	<ul style="list-style-type: none"> <li>-Produce detailed lists of equipment and fabrics relevant to their tasks.</li> <li>-Write a step-by-step plan, including a list of resources required.</li> <li>-Select from and use, a range of appropriate utensils, tools and equipment accurately to measure and combine appropriate ingredients, materials and resources.</li> <li>-Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose.</li> <li>-Compare the final product to the original design specification and record the evaluations.</li> <li>-Consider the views of others to improve their work.</li> <li>-Identify and describe appropriate, equipment, materials, components and techniques</li> <li>Recognise that products/designs have to meet a range of different needs</li> </ul>	<ul style="list-style-type: none"> <li>-To start understanding how much products cost and how sustainable they are.</li> <li>-Produce detailed lists of equipment and fabrics relevant to their tasks.</li> <li>-Write a step-by-step plan, including a list of resources required.</li> <li>-Select from and use, a range of appropriate utensils, tools and equipment accurately to measure and combine appropriate ingredients, materials and resources.</li> <li>-Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose.</li> <li>-Compare the final product to the original design specification and record the evaluations.</li> </ul>	
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<p>-To begin to understand about seasonality in relation to food products and the source of different food products.</p> <p>-To use a variety of techniques such as slicing, chopping, grating, mixing and kneading.</p> <p>- To explain which foods and drink assist us in maintaining a healthy, balanced lifestyle.</p>	<p>-Understand and use mechanical structures in his/her products using cams and linkages</p> <p>-Produce a 3-D textile product from a combination of accurately made pattern pieces, fabric shapes and different fabrics.</p> <p>-Understand how fabrics can be strengthened, stiffened and reinforced where appropriate.</p>	<p>-Consider the views of others to improve their work.</p> <p>-Produce a 3-D textile product from a combination of accurately made pattern pieces, fabric shapes and different fabrics.</p> <p>-Understand how fabrics can be strengthened, stiffened and reinforced where appropriate.</p>	
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# YEAR 6

In addition to previous learning, pupils should learn to...

<b>Cookery</b> <i>Banana bread (Fairtrade link)</i>	<b>Construction</b> <i>Bird house (woodwork)</i>	<b>Electronics</b> <i>Night light</i> <a href="http://code-it.co.uk/crumble/crumble">http://code-it.co.uk/crumble/crumble</a>	
<ul style="list-style-type: none"> <li>-Generate, model, develop and communicate my ideas through prototypes and pattern pieces.</li> <li>-Develop a clear idea of what has to be done, planning how to use materials, equipment and processes.</li> <li>- To use research to inform and develop the design of innovative, functional, appealing product that is fit for purpose.</li> <li>-To identify strengths and weaknesses and suggest alternative methods of making, if first attempt fails.</li> <li>-Use results of investigations, information sources, including ICT when developing design ideas.</li> </ul>	<ul style="list-style-type: none"> <li>-Generate, model, develop and communicate my ideas through prototypes and pattern pieces.</li> <li>-Develop a clear idea of what has to be done, planning how to use materials, equipment and processes.</li> <li>- To use research to inform and develop the design of innovative, functional, appealing product that is fit for purpose.</li> <li>-To identify strengths and weaknesses and suggest alternative methods of making, if first attempt fails.</li> <li>-Use results of investigations, information sources, including ICT when developing design ideas.</li> </ul>	<ul style="list-style-type: none"> <li>-Generate, model, develop and communicate my ideas through prototypes and pattern pieces.</li> <li>-Develop a clear idea of what has to be done, planning how to use materials, equipment and processes.</li> <li>- To use research to inform and develop the design of innovative, functional, appealing product that is fit for purpose.</li> <li>-To identify strengths and weaknesses and suggest alternative methods of making, if first attempt fails.</li> <li>-Use results of investigations, information sources, including</li> </ul>	<p><b>Design</b></p> <p><b>Make</b></p> <p><b>Evaluate</b></p> <p><b>Technical</b></p>

<p>-To explain the impact the product will have beyond their intended purpose.</p> <p>-Formulate a step-by-step plan to guide making, listing tools, equipment, materials and components.</p> <p>-Competently select from and use appropriate tools to accurately measure, mark, cut and assemble materials, and securely connect electrical components to produce reliable, functional products.</p> <p>-Use finishing and decorative techniques suitable for the product they are designing and making.</p> <p>-Continually evaluate and modify the working features of the product to match the initial design specification.</p> <p>-Test the product and systems system to demonstrate its effectiveness for the intended user and purpose</p> <p>- Critically evaluate their products against their design specification,</p>	<p>-To explain the impact the product will have beyond their intended purpose.</p> <p>-Formulate a step-by-step plan to guide making, listing tools, equipment, materials and components.</p> <p>-Competently select from and use appropriate tools to accurately measure, mark, cut and assemble materials, and securely connect electrical components to produce reliable, functional products.</p> <p>-Use finishing and decorative techniques suitable for the product they are designing and making.</p> <p>-Continually evaluate and modify the working features of the product to match the initial design specification.</p> <p>-Test the product and systems system to demonstrate its effectiveness for the intended user and purpose</p>	<p>ICT when developing design ideas.</p> <p>-To explain the impact the product will have beyond their intended purpose.</p> <p>-Formulate a step-by-step plan to guide making, listing tools, equipment, materials and components.</p> <p>-Competently select from and use appropriate tools to accurately measure, mark, cut and assemble materials, and securely connect electrical components to produce reliable, functional products.</p> <p>-Use finishing and decorative techniques suitable for the product they are designing and making.</p> <p>-Continually evaluate and modify the working features of the product to match the initial design specification.</p>	
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<p>intended user and purpose, identifying strengths and areas for development, and carrying out appropriate tests.</p> <p>-Test the system to demonstrate its effectiveness for the intended user and purpose.</p> <p>-Consider views of others to improve work and implement changes.</p> <p>- To prepare and cook a variety of dishes safely and hygienically, using a heat source where appropriate.</p> <p>-To explain how seasons affect food availability source of different food products.</p> <p>-To use a variety of techniques such as slicing, chopping, grating, mixing, kneading and baking.</p> <p>-To explain substances within different types of foods that are required to lead a healthy, balanced lifestyle.</p>	<p>- Critically evaluate their products against their design specification, intended user and purpose, identifying strengths and areas for development, and carrying out appropriate tests.</p> <p>-Test the system to demonstrate its effectiveness for the intended user and purpose.</p> <p>-Consider views of others to improve work and implement changes.</p> <p>-Apply his/her understanding of how to strengthen, stiffen and reinforce more complex structures and understand how to strengthen, stiffen and reinforce 3-D frameworks.</p> <p>- Understand the characteristics of different materials, components and processes</p> <p>-Understand a range of advanced/specialist techniques</p>	<p>-Test the product and systems system to demonstrate its effectiveness for the intended user and purpose</p> <p>- Critically evaluate their products against their design specification, intended user and purpose, identifying strengths and areas for development, and carrying out appropriate tests.</p> <p>-Test the system to demonstrate its effectiveness for the intended user and purpose.</p> <p>-Consider views of others to improve work and implement changes.</p> <p>-Understand and use electrical systems in their products linked to science coverage.</p> <p>-Understand the characteristics of different materials, components, ingredients and processes</p> <p>-Understand a range of advanced/specialist techniques</p>	
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		<p>-Apply his/her understanding of computing to program, monitor and control his/her products – ICT link</p> <p>Understand and use electrical systems in his/her products e.g. series circuits incorporating switches, bulbs, buzzers and motors</p> <p>Apply his/her understanding of computing to program, monitor and control his/her products – ICT link</p> <p>Understand and use electrical systems in his/her products e.g. series circuits incorporating switches, bulbs, buzzers and motors</p>	
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