

	Year 3	Year 4	Year 5	Year 6
<b>Food Technology</b>	<ul style="list-style-type: none"> <li>Can I understand and apply the principles of a healthy and varied diet?</li> <li>Can I describe seasonality, and know where and how a variety of ingredients are grown and processed?</li> <li>Can I use digital devices to research what initiatives have been launched to address environmental issues caused by importing food?</li> <li>Can I begin to select my own ingredients when cooking or baking?</li> <li>Can I begin to order the main stages of making a product?</li> <li>Can I combine several components together in different ways?</li> </ul>	<ul style="list-style-type: none"> <li>Can I identify different techniques used when baking? Can I select my own suitable ingredients when cooking or baking?</li> <li>Can I think ahead about the order of my work? Can I carry out tests before making improvements?</li> <li>Can I talk about what I like and dislike, giving reasons? Can I use equipment and tools with increased accuracy and safety? Can I create a detailed plan considering the target audience, design criteria and intended purpose?</li> <li>Can I measure accurately using centimetres and grams? Do I present food in an appealing way?</li> <li>Can I understand and explain safe food storage? Can I evaluate food by</li> </ul>	<ul style="list-style-type: none"> <li>Can I understand and apply the principle of a healthy and varied diet?</li> <li>Can I understand seasonality and know where and how a variety of ingredients are grown?</li> <li>Can I show what foods make up a balanced diet?</li> <li>Can I create a recipe that can be adapted to make it healthier?</li> <li>Can I use keywords to research alternative ingredients for a well-known dish?</li> <li>Can I use my findings from my research to suggest healthy substitutions and additions to a recipe?</li> <li>Can I use my research to plan my dish?</li> <li>Can I calculate and compare two adapted recipes?</li> <li>Can I create a healthier version of my chosen dish?</li> <li>Can I suggest an alternative recipe to</li> </ul>	<ul style="list-style-type: none"> <li>Do I understand why certain traditional meals were prepared in specific weather conditions?</li> <li>Can I use market research to inform plans?</li> <li>Can I keep cost constraints in mind when selecting materials in design?</li> <li>Can I begin to write my own recipes based on recipes I have previously tried?</li> <li>Can I make choices/changes to recipes and justify the decision?</li> <li>Can I work within constraints?</li> <li>Can I use proportions when cooking extending beyond doubling and halving recipes?</li> <li>Can I use a range of tools and equipment with good accuracy and effectiveness, within established safety parameters?</li> <li>Can I evaluate a range of different sources of information such as</li> </ul>

	<ul style="list-style-type: none"> <li>• Can I weigh in grams?</li> <li>• Can I present food in an appealing way?</li> <li>• Do I understand safe food storage?</li> <li>• Am I willing to make changes if this helps to improve my work?</li> <li>•</li> </ul>	<p>taste, texture and flavour?</p> <ul style="list-style-type: none"> <li>•</li> </ul>	<p>suit others with different dietary requirements?</p> <ul style="list-style-type: none"> <li>• Can I use equipment safely, including knives, hot pans and hobs?</li> <li>• Can I avoid cross - contamination?</li> <li>• Can I carefully follow a method to make a recipe?</li> <li>• Can I design an appealing packaging that reflects my recipe?</li> <li>• Can I assess my product with the quality reassurance questionnaire?</li> <li>• Can I complete a taste test on my peers' product?</li> <li>• Can I evaluate my feedback and improve on my product?</li> <li>• Can I explain what steps I would take to improve on my product?</li> </ul>	<p>advertising and handbooks?</p> <ul style="list-style-type: none"> <li>• Can I receive reviews from peers using a digital survey?</li> </ul>
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<p>Textiles</p>	<ul style="list-style-type: none"> <li>• Can I describe designs using a range of key vocabulary?</li> <li>• Can I begin to use a range of simple stitches?</li> <li>• Can I choose tools and equipment which are appropriate for the job?</li> <li>• Do I recognise that designs must meet a range of needs?</li> <li>• Can I choose textiles both for their appearance and qualities?</li> <li>• Can I measure and cut out using centimetres?</li> <li>• Can I use equipment and tools accurately and safely?</li> <li>• Can I join textiles of different types in a range of ways?</li> <li>• Can I make the finished product neat and tidy?</li> <li>• Can I assess how well my product works in relation to the purpose?</li> </ul>	<ul style="list-style-type: none"> <li>• Can I explain the advantages and disadvantages of each fastening?</li> <li>• Can I develop designs through my own reflection and the evaluation of others?</li> <li>• Can I devise a template or pattern for a product?</li> <li>• Can I measure, cut and assemble with accuracy?</li> <li>• Can I create a final design for a product based on initial ideas and revisions, based on existing ideas?</li> <li>• Can I join my fabric by sewing?</li> <li>• Can I use permanent and temporary fastenings to join?</li> <li>• Can I join with a greater range of techniques (e.g., staples)?</li> <li>• Can I improve my product using peer feedback?</li> <li>• Can I evaluate others' designs against design specifications?</li> </ul>	<ul style="list-style-type: none"> <li>• Can I give reasons for why I chose a certain textile?</li> <li>• Can I explore a range of patterns and designs for my stuffed toy?</li> <li>• Can I choose materials that will be suitable for my target audience?</li> <li>• Can I label my diagram explaining what materials I will be using?</li> <li>• Can I label what products I will use to finish off my stuffed toy?</li> <li>• Can I label what colours will be used for the product?</li> <li>• Can I create strong and secure stitches?</li> <li>• Can I use applique to attach pieces of fabric decoration?</li> <li>• Can I use stitches to decorate fabric?</li> <li>• Can I use blanket stitch to join pieces of fabric?</li> <li>• Can I stuff my toy carefully, repairing any holes or gaps?</li> <li>• Can I evaluate my stuffed toy?</li> </ul>	<ul style="list-style-type: none"> <li>• Can I research and compare designs of waistcoats, giving reasons for which designs may be appropriate for my waistcoat?</li> <li>• Can I generate and develop ideas using a cross-sectional/ exploded diagram?</li> <li>• Can I consider the audience when choosing textiles?</li> <li>• Can I measure and cut out in precise detail, and make sure that finished products are carefully finished?</li> <li>• Can I use a running stitch to join two pieces of fabric together?</li> <li>• Can I secure a fastening?</li> <li>• Can I attach objects for decoration using thread?</li> <li>• Can I refine and suggest further improvements to the product?</li> </ul>
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<h2>Structures</h2>	<ul style="list-style-type: none"> <li>• Can I describe materials using a range of key vocabulary?</li> <li>• Can I work out how to make models stronger?</li> <li>• Can I use what I know about the properties of materials to plan ideas?</li> <li>• Can I use scoring and folding for precision?</li> <li>• Can I prepare for work by assembling components together before joining?</li> <li>• Can I measure, cut and assemble with increasing accuracy?</li> <li>• Can I use a range of techniques to shape and mould materials?</li> <li>• Can I alter and adapt materials to make them stronger?</li> <li>• Can I recognise what has gone well, but suggest further improvements for the finished article in relation to its purpose?</li> </ul>	<ul style="list-style-type: none"> <li>• Can I identify which materials would be best for my structure and give reasons why?</li> <li>• Can I identify which 3D shapes will provide a strong and stable structure?</li> <li>• Can I experiment with a range of techniques to increase stability in a structure?</li> <li>• Can I make ongoing sketches and annotations and constraints?</li> <li>• Can I measure accurately to build effective structures?</li> <li>• Can I strengthen joins and corners in a variety of ways?</li> <li>• Can I use finishing techniques, showing an awareness of the audience? (e.g. sanding, varnishing, glazing)</li> <li>• Can I think about ideas as I progress and make changes to improve my work?</li> <li>• Can I create different textural effects with my chosen material?</li> </ul>	<ul style="list-style-type: none"> <li>• Can I identify beam and arch bridges?</li> <li>• Can I create a range and arch bridge designs?</li> <li>• Can I identify stronger and weaker structures?</li> <li>• Can I find different ways to reinforce structures?</li> <li>• Can I identify arch, beam and truss bridges?</li> <li>• Can I use triangles to create a truss bridge and test them?</li> <li>• Can I explain how triangles can be used to reinforce bridges?</li> <li>• Can I measure and mark out accurately on wood?</li> <li>• Can I select appropriate tools and equipment for particular tasks?</li> <li>• Can I follow health and safety rules?</li> <li>• Can I explain why selecting appropriate materials is an important part of the design process?</li> <li>• Can I complete my wooden truss bridge?</li> <li>• Can I use tools to aid me with finishing my</li> </ul>	<ul style="list-style-type: none"> <li>• Can I research materials used to construct air raid shelters and test their reliability?</li> <li>• Can I draw scaled diagrams with increasing use of ratio?</li> <li>• Have I considered the use of the product when selecting materials?</li> <li>• Can I create separate elements of a model, with improvements where necessary, before combining into the finished article?</li> <li>• Can I discuss whether different resources have improved the product?</li> <li>• Can I attach structures to a base, reinforcing the join where necessary?</li> <li>• Can I critically assess and explain whether it is fit for purpose?</li> </ul>
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<b>Digital World</b>	<ul style="list-style-type: none"> <li>Can I identify similarities and differences between a range of smart devices?</li> <li>Can I make increasing use of ICT to plan ideas?</li> <li>Can I debug programs and solve problems by decomposing them into smaller parts?</li> <li>Can I combine several components together in different ways?</li> <li>Can I generate and develop ideas using exploded diagrams?</li> <li>Can I select the most appropriate materials, tools and techniques to use?</li> <li>Can I manipulate materials using a range of tools and equipment?</li> </ul>	<ul style="list-style-type: none"> <li>Can I explore the features of CAD programs with a learning partner?</li> <li>Do I understand designs must meet a range of criteria?</li> <li>Can I increasingly model ideas before making them?</li> <li>Can I explain why I have selected materials, tools and techniques to use?</li> <li>Can I explain the role of a prototype?</li> <li>Can I construct a structure using a 3D net?</li> <li>Can I use and manipulate shapes and clipart, using computer-aided design, to produce a logo?</li> <li>Can I understand what a logo is and</li> </ul>	<ul style="list-style-type: none"> <li>Can I research a particular animal's needs?</li> <li>Can I develop a design criteria based on my research?</li> <li>Can I describe key development in thermometer history?</li> <li>Can I (where relevant) survey the target audience and use this to generate ideas?</li> <li>Can I produce a detailed step-by-step plan for my design method?</li> <li>Can I suggest some alternative designs and compare the benefits and drawbacks to inform the design process and outcome?</li> <li>Can I use a range of tools and equipment</li> </ul>	<ul style="list-style-type: none"> <li>Can I explore the features of a BBC Micro: bit and create an annotated sketch?</li> <li>Can I design appealing products that are fit for purpose and aimed at particular individuals or groups?</li> <li>Can I program an N, E, S, W cardinal compass?</li> <li>Can I explain the key functions in my program, including any additions?</li> <li>Can I consider materials and their functional properties?</li> <li>Do I have an awareness of sustainability in design?</li> <li>Can I develop a product idea through annotated sketches?</li> <li>Can I identify key industries that utilise 3D CAD modelling and explain why?</li> </ul>

	<ul style="list-style-type: none"> <li>Can I recognise what has gone well, but suggest further improvements for the finished article?</li> <li></li> </ul>	<p>why they are important in the world of design and business?</p> <ul style="list-style-type: none"> <li>Can I follow a list of design requirements?</li> <li>Can I recognise what has gone well, but suggest further improvements for the finished article in relation to its purpose?</li> </ul>	<p>with good accuracy and effectiveness?</p> <ul style="list-style-type: none"> <li>Can I critically assess how well the product works in relation to the design criteria and the intended purpose and suggest improvements?</li> <li>Can I use sketches to show other ways of doing things – and then make choices between designs?</li> </ul>	<ul style="list-style-type: none"> <li>Can I place and manoeuvre 3D objects, using computer-aided design?</li> <li>Can I demonstrate that my product is strong and fit for purpose?</li> <li>Can I justify my plan to someone else?</li> <li>Can I explain if more or different information is needed to improve it further?</li> </ul>
<b>Electrical Systems</b>	<ul style="list-style-type: none"> <li>Can I describe a range of electrical systems using key vocabulary?</li> <li>Can I use digital devices to research types of static electricity?</li> <li>Can I identify a design criterion and establish a purpose/audience for a product?</li> <li>Do I think about my ideas as I make progress?</li> <li>Can I alter and adapt original plans following discussion and evaluation?</li> <li>Can I explain how I could change my design to improve it?</li> </ul>	<ul style="list-style-type: none"> <li>Can I identify light sources used in the past?</li> <li>Can I consider the way the product will be used when planning?</li> <li>Do I understand how some properties can be used – e.g. waterproof?</li> <li>Can I draw an annotated sketch of my design?</li> <li>Can I use a simple circuit and add components to it?</li> <li>Can I select and use appropriate equipment and tools accurately and safely?</li> <li>Can I add electricity to create motion or make light?</li> </ul>	<ul style="list-style-type: none"> <li>Can I describe the historical development of a personal message exchange?</li> <li>Can I state what Sir Rowland Hill invented and why it was important for greeting cards?</li> <li>Can I analyse and evaluate a range of existing greeting cards? Can I write a design criterion for an electronic greeting card?</li> <li>Can I construct a series circuit?</li> <li>Can I draw a series circuit diagram and symbols?</li> </ul>	<ul style="list-style-type: none"> <li>Can I gather images and information about previous and existing toys?</li> <li>Can I use a range of information to inform my design? Can I analyse a selection of existing children's toys?</li> <li>Can I calculate the amount of materials needed and use this to estimate cost?</li> <li>Can I choose appropriate tools and materials to ensure that the final product will appeal to the audience?</li> <li>Can I incorporate a switch into the product? Can I use key vocabulary to create a manual or handbook? How well can I test and</li> </ul>

		<ul style="list-style-type: none"> <li>• Can I make a product which uses both electrical and mechanical components?</li> <li>• Can I recognise what has gone well, but suggest further improvements for the finished article in relation to its purpose?</li> </ul>	<ul style="list-style-type: none"> <li>• Can I explain how a series circuit will work in my card?</li> <li>• Can I identify the negative and positive leg of LED?</li> <li>• Can I compile a mood board relevant to my chosen theme, purpose and recipient?</li> <li>• Can I generate ideas inspired by research?</li> <li>• Can I annotate design ideas to include key information?</li> <li>• Can I review design ideas against criteria?</li> <li>• Can I construct my series circuit?</li> <li>• Can I draw my series circuit as a diagram?</li> <li>• Can I explain how my series circuit works in my card?</li> <li>• Can I evaluate my final greeting card design?</li> <li>• Can I understand feedback given to me?</li> <li>• Can I show that I can self-reflect?</li> <li>• Can I adapt to my design using self-reflection and peer evaluation?</li> </ul>	<p>evaluate the final product?</p>
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