Curriculum Area	Key Stage 1	Key Stage 2		
Designing				
Understanding contexts, users and purposes	<ul> <li>Across KS1 pupils should:</li> <li>work confidently within a range of contexts, such as imaginary, story- based, home, school, gardens, playgrounds, local community, industry and the wider environment</li> <li>state what products they are designing and making</li> <li>say whether their products are for themselves or other users • describe what their products are for</li> <li>say how their products will work</li> <li>say how they will make their products suitable for their intended users</li> <li>use simple design criteria to help develop their ideas</li> </ul>	<ul> <li>Across KS2 pupils should:</li> <li>work confidently within a range of contexts, such as the home, school, leisure, culture, enterprise, industry and the wider environment</li> <li>describe the purpose of their products</li> <li>indicate the design features of their products that will appeal to intended users</li> <li>explain how particular parts of their products work</li> <li>In early KS2 pupils should also:</li> <li>gather information about the needs and wants of particular individuals and groups</li> <li>develop their own design criteria and use these to inform their ideas</li> <li>In late KS2 pupils should also:</li> <li>carry out research, using surveys, interviews, questionnaires and webbased resources</li> <li>identify the needs, wants, preferences and values of particular individuals and groups</li> <li>develop a simple design specification to guide their thinking</li> </ul>		
Generating, developing, modelling and communicating ideas	<ul> <li>Across KS1 pupils should:</li> <li>generate ideas by drawing on their own experiences</li> <li>use knowledge of existing products to help come up with ideas</li> <li>develop and communicate ideas by talking and drawing</li> <li>model ideas by exploring materials, components and construction kits and by making templates and mock ups</li> <li>use information and communicate their ideas</li> </ul>	<ul> <li>Across KS2 pupils should:</li> <li>share and clarify ideas through discussion</li> <li>model their ideas using prototypes and pattern pieces</li> <li>use annotated sketches, cross-sectional drawings and exploded diagrams to develop and communicate their ideas</li> <li>use computer-aided design to develop and communicate their ideas</li> <li>In early KS2 pupils should also:</li> <li>generate realistic ideas, focusing on the needs of the user</li> <li>make design decisions that take account of the availability of resources In late KS2 pupils should also:</li> <li>generate innovative ideas, drawing on research</li> <li>make design decisions, taking account of constraints such as time, resources and cost</li> </ul>		

Making				
Planning	Across KS1 pupils should: • plan by suggesting what to do next • select from a range of tools and equipment, explaining their choices • select from a range of materials and components according to their characteristics	<ul> <li>Across KS2 pupils should:</li> <li>select tools and equipment suitable for the task</li> <li>explain their choice of tools and equipment in relation to the skills and techniques they will be using</li> <li>select materials and components suitable for the task</li> <li>explain their choice of materials and components according to functional properties and aesthetic qualities</li> <li>In early KS2 pupils should also:</li> <li>order the main stages of making</li> <li>In late KS2 pupils should also:</li> <li>produce appropriate lists of tools, equipment and materials that they need</li> <li>formulate step-by-step plans as a guide to making</li> </ul>		
Practical Skills and techniques	<ul> <li>Across KS1 pupils should:</li> <li>follow procedures for safety and hygiene</li> <li>use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components</li> <li>measure, mark out, cut and shape materials and components</li> <li>assemble, join and combine materials and components</li> <li>use finishing techniques, including those from art and design</li> </ul>	<ul> <li>Across KS2 pupils should:</li> <li>follow procedures for safety and hygiene</li> <li>use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components</li> <li>In early KS2 pupils should also:</li> <li>measure, mark out, cut and shape materials and components with some accuracy</li> <li>assemble, join and combine materials and components with some accuracy</li> <li>apply a range of finishing techniques, including those from art and design, with some accuracy</li> <li>accurately measure, mark out, cut and shape materials and components</li> <li>accurately measure, mark out, cut and shape materials and components</li> <li>accurately assemble, join and combine materials and components</li> <li>accurately assemble, join and combine materials and components</li> <li>use techniques that involve a number of steps</li> <li>demonstrate resourcefulness when tackling practical problems</li> </ul>		

	Evaluating	
Own ideas and	Across KS1 pupils should:	Across KS2 pupils should:
products	<ul> <li>talk about their design ideas and what they are making</li> </ul>	• identify the strengths and areas for development in their ideas and
	• make simple judgements about their products and ideas against design	products
	criteria	• consider the views of others, including intended users, to improve
	<ul> <li>suggest how their products could be improved</li> </ul>	their work In early KS2 pupils should also:
		<ul> <li>refer to their design criteria as they design and make</li> </ul>
		<ul> <li>use their design criteria to evaluate</li> </ul>
		their completed products
		In late KS2 pupils should also:
		• critically evaluate the quality of the design, manufacture and fitness
		for purpose of their products as they design and make
		<ul> <li>evaluate their ideas and products against their original design</li> </ul>
		specification
Existing products	Across KS1 pupils should explore:	Across KS2 pupils should investigate and analyse:
	what products are	<ul> <li>how well products have been designed</li> </ul>
	• who products are for	<ul> <li>how well products have been made</li> </ul>
	<ul> <li>what products are for</li> </ul>	<ul> <li>why materials have been chosen</li> </ul>
	<ul> <li>how products work</li> </ul>	<ul> <li>what methods of construction have been used</li> </ul>
	<ul> <li>how products are used</li> </ul>	<ul> <li>how well products work</li> </ul>
	<ul> <li>where products might be used</li> </ul>	<ul> <li>how well products achieve their purposes</li> </ul>
	<ul> <li>what materials products are made from</li> </ul>	<ul> <li>how well products meet user needs and wants</li> </ul>
	<ul> <li>what they like and dislike about products</li> </ul>	In early KS2 pupils should also investigate and analyse:
		<ul> <li>who designed and made the products</li> </ul>
		<ul> <li>where products were designed and made</li> </ul>
		<ul> <li>when products were designed and made</li> </ul>
		<ul> <li>whether products can be recycled or reused</li> </ul>
		In late KS2 pupils should also investigate and analyse:
		<ul> <li>how much products cost to make</li> </ul>
		<ul> <li>how innovative products are</li> </ul>
		<ul> <li>how sustainable the materials in products are</li> </ul>
		<ul> <li>what impact products have beyond their intended purpose</li> </ul>

Cooking and Nutrition	<ul> <li>Across KS1 pupils should know:</li> <li>that all food comes from plants or animals</li> <li>that food has to be farmed, grown elsewhere (e.g. home) or caught</li> </ul>	<ul> <li>Across KS2 pupils should know:</li> <li>that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world</li> <li>In late KS2 pupils should also know:</li> <li>that seasons may affect the food available</li> <li>how food is processed into ingredients that can be eaten or used in cooking</li> </ul>
Food preparation, cooking and nutrition	<ul> <li>Across KS1 pupils should know:</li> <li>how to name and sort foods into the five groups in The eatwell plate</li> <li>that everyone should eat at least five portions of fruit and vegetables every day</li> <li>how to prepare simple dishes safely and hygienically, without using a heat source</li> <li>how to use techniques such as cutting, peeling and grating</li> </ul>	<ul> <li>Across KS2 pupils should know:</li> <li>how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source</li> <li>how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking</li> <li>In early KS2 pupils should also know:</li> <li>that a healthy diet is made up from a variety and balance of different food and drink, as depicted in The eatwell plate</li> <li>that to be active and healthy, food and drink are needed to provide energy for the body</li> <li>In late KS2 pupils should also know:</li> <li>that recipes can be adapted to change the appearance, taste, texture and aroma</li> <li>that different food and drink contain different substances – nutrients, water and fibre – that are needed for health</li> </ul>