



Coverage of UKS2 objectives

UKS2	Objective (those in bold are the NC end of KS2 objectives)	Pupils working towards	Pupils working at	Pupils working beyond
Design	<p>I can design a product, using in-depth research, to a given criteria that is appealing to an identified end-user.</p> <p>I can generate designs that can be shared with others through annotated drawings, exploded cross-sections, prototypes and discussion.</p> <p>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>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</p>			
Make	<p>I can cut, shape, join and finish accurately with a range of tools, selecting the most appropriate to match my original design.</p> <p>I can select the best method, products, materials and ingredients, according to their functional properties and aesthetics to make a product of a high standard.</p> <p>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>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>			
Evaluate	<p>I can investigate and analyse a range of existing products, using my findings to inform my own designs.</p> <p>I can evaluate my own finished product against the original criteria, considering the suggestions of others.</p> <p>I can identify key individuals and products and explain how they have shaped the world.</p> <p>Investigate and analyse a range of existing products</p> <p>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p> <p>Understand how key events and individuals in design and technology have helped shape the world</p>			



<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Technical Knowledge</p>	<p>I can use my knowledge of how to make structures stronger, stiffer and more stable to make more complex structures.</p> <p>I can use levers, sliders, wheels and axles, gears, pulleys and cams in my products.</p> <p>I can use electrical components in my products.</p> <p>I can apply my understanding of computing to begin to program, monitor and control my products.</p> <p>Apply their understanding of how to strengthen, stiffen and reinforce more complex structures Understand and use mechanical systems in their products (for example, gears, pulleys, cam, levers and linkages) Understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors) Apply their understanding of computing to program, monitor and control their products</p>			
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Cooking and Nutrition</p>	<p>I can understand and apply the principles of a healthy and varied diet to prepare different dishes.</p> <p>I can prepare and cook predominantly savoury dishes using a variety of cooking techniques.</p> <p>I understand and can explain the seasonality of food sources.</p> <p>I understand where and how the ingredients I have used are grown, reared caught and processed.</p> <p>Understand and apply the principles of a healthy and varied diet Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques Understand seasonality, and know where and how a variety of ingredients are grown reared, caught and processed</p>			