## **Design and Technology Subject Content and Key Assessment Criteria**

Key Stage 1	As a designer:
Pupils should be	Design:
taught:	<ul> <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> <li>Make:</li> </ul>
	<ul> <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> <li>Evaluate:</li> </ul>
	<ul> <li>explore and evaluate a range of existing products</li> <li>evaluate their ideas and products against design criteria</li> <li>Technical Knowledge:</li> </ul>
	<ul> <li>build structures, exploring how they can be made stronger, stiffer and more stable</li> </ul>
	<ul> <li>explore and use mechanisms for example, levers, sliders, wheels and axles, in their products.</li> </ul>
	Cooking and Nutrition
	<ul> <li>use the basic principles of a healthy and varied diet to prepare dishes</li> <li>understand where food comes from.</li> </ul>
	Key Assessment Criteria
Year 1	I use my own ideas to make something.
	I describe how something works.
	• I cut food safely.
	I make a product which moves.
	I make my model stronger.  I combain to company also have been been also make my product.
	I explain to someone else how I want to make my product.      I shoose appropriate resources and tools.
	<ul><li>I choose appropriate resources and tools.</li><li>I make a simple plan before making.</li></ul>
Year 2	I think of an idea and plan what to do next.
I Cai Z	<ul> <li>I choose tools and materials and explain why I have chosen them.</li> </ul>
	I join materials and components in different ways.

I explain what went well with my work.
• I explain why I have chosen specific textiles.
• I measure materials to use in a model or structure.
• I describe the ingredients I am using.

Key Stage 2	As a designer:
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Pupils should be	Design
taught:	<ul> <li>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</li> <li>generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> <li>Make</li> </ul>
	<ul> <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> <li>Evaluate</li> </ul>
	<ul> <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> <li>Technical knowledge</li> </ul>
	<ul> <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>

	Cooking and nutrition
	<ul> <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> Key Assessment Criteria
Year 3	I prove that my design meets some set criteria.
	I follow a step by step plan, choosing the right equipment and
	materials.
	I design a product and make sure that it looks attractive.
	I choose a material for both its suitability and its appearance.
	• I select the most appropriate tools and techniques for a given task.
	I make a product which uses both electrical and mechanical
	components.
	I work accurately to measure, make cuts and make holes.
	I describe how food ingredients come together.
Year 4	I use ideas from other people when I am designing.
	I produce a plan and explain it.
	• I evaluate and suggest improvements for my designs.
	• I evaluate products for both their purpose and appearance.
	I explain how I have improved my original design.
	I present a product in an interesting way.
	I measure accurately.
	• I persevere and adapt my work when my original ideas do not work.
	• I know how to be both hygienic and safe when using food.
Year 5	I come up with a range of ideas after collecting information from
	different sources.
	• I produce a detailed, step by step plan.
	I suggest alternative plans; outlining the positive features and draw
	backs.
	I explain how a product will appeal to a specific audience.
	I evaluate appearance and function against original criteria.
	I use a range of tools and equipment competently.
	I make a prototype before make a final version.  I take a that the above had bath beginning as a deafa in the bit take as
V C	• I show that I can be both hygienic and safe in the kitchen.
Year 6	I use market research to inform my plans and ideas.      I follow and refine my plans.
	I follow and refine my plans.  Livetify my plans in a convincing way.
	I justify my plans in a convincing way.      I show that I consider sulture and society in my plans and designs.
	• I show that I consider culture and society in my plans and designs.

- I show that I can test and evaluate my products.
- I explain how products should be stored and give reasons.
- I work within a budget.
- I evaluate my product against clear criteria.