

Design and Technology - Upper Key Stage 2

Progressive statements

Year Group	Design	Make	Evaluate	Technical Knowledge	Cooking and Nutrition
Year 5	<ul style="list-style-type: none"> I can design with the user in mind, motivated by the service a product will offer (rather than for profit). I can use innovative combinations of electronics (or computing) and mechanics in product design. I can combine elements of design from a range of inspirational designers throughout history, giving reasons for choices. I can creative innovative designs that improve upon existing products. I can use prototypes, cross-sectional diagrams and computer aided designs to represent designs 	<ul style="list-style-type: none"> I can develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filing and sanding) I can ensure products have a high quality finish using art skills where appropriate. 	<ul style="list-style-type: none"> Evaluate the design of products so as to suggest improvements to the user experience I can make products through stages of prototypes making continual refinements. 	<ul style="list-style-type: none"> I can write code to control and monitor models and products. I can convert rotary motion to linear motion using cams. 	<ul style="list-style-type: none"> I can understand the importance of correct storage and handling of ingredients (using knowledge of micro-organisms) I can measure accurately and calculate ratios and ingredients to scale up or down from a recipe I can demonstrate a range of baking and cooking techniques I can create and refine recipes including ingredients, methods, cooking times and temperatures
Year 6	<ul style="list-style-type: none"> I can design with the user in mind, motivated by the service a product will offer (rather than for profit). 	<ul style="list-style-type: none"> I can cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a 	<ul style="list-style-type: none"> I can make products through stages of prototypes making continual refinements. 	<ul style="list-style-type: none"> I can independently write code to control and monitor models and products. I can show an understanding of 	

- I can use prototypes, cross-sectional diagrams and computer aided designs to represent designs with increasing complexity

more precise scissor cut after roughly cutting out a shape)

- I can ensure products have a high quality finish using art skills where appropriate.
- I can create objects (e.g. a cushion) that employ a seam allowance
- I can join textiles with a combinations of stitching techniques (such as backstitch for seams, running stitch to attach decoration)
- I can use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles (such as soft decoration for comfort on a cushion)

the qualities of materials to choose appropriate tools to cut and shape (such as the nature of fabric may require sharper scissors than would be used to cut paper)

- I can create circuits using electronics kits that employ a number of components (such as LEDs, resistors, transistors and chips)