	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Design, Make, Evaluate and Improve	Design products that have a clear purpose and an intended user.		Design with purpose by identifying opportunities to design.		Design with the user in mind, motivated by the service a product will offer (rather than simply for profit).	
(Throughout each project/unit)	 Make products, refining the design as work progresses. Use software to design. 		Make products by working efficiently (such as by carefully selecting materials).		Make products through making continual refine	n stages of prototypes, ements.
			 Refine work and techniques as work progresses, continually evaluating the product design. Use software to design and represent product designs. 		•Ensure products have art skills where appropri	a high quality finish, using riate.
					Use prototypes, cross- and computer aided de designs.	
Use Design Throughout History as Inspiration (Throughout each project/unit)	Explore objects and designs to identify likes and dislikes of the designs. • Suggest improvements to existing designs. • Explore how products have been created.		Identify some of the greater areas of study (including techniques) to generate in techniques areas on study (including techniques) to generate it is a superior of the study o	pioneers in horticultural deas for designs. esigns, giving	Combine elements of combine elements of combine elements of combined inspirational designer history, giving reasons • Create innovative design of the combined inspiration in the combined inspiration in the combined inspiration in the combined inspiration in the combined in the combine	ers throughout for choices. signs that improve

Design and Technology Skills Progression

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Materials (Throughout each relevant project/unit)	Cut materials safely using tools provided. Measure and mark out to the nearest centimetre. Demonstrate a range of cutting and shaping techniques (such as tearing, cutting,	Cut materials accurately and safely by selecting appropriate tools. Measure and mark out to the nearest millimetre.	Cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape). Show an understanding of the qualities	
	folding and curling). Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen)	Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs). Select appropriate joining techniques.	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).	
Construction	Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products.	Choose suitable techniques to construct products or to repair items. Strengthen materials using suitable techniques.	Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filing and sanding)	
Computing	Model designs using software.	Control and monitor models using software designed for this purpose.	Write code to control and monitor models or products.	
Food	Cut, peel or grate ingredients safely and hygienically.	Prepare ingredients hygienically using appropriate utensils.	Understand the importance of correct storage and handling of ingredients (using knowledge of micro-organisms).	

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	Measure or weigh using measuring cups or electronic scales.	Measure ingredients to the nearest gram accurately.	Measure accurately and calculate ratios of ingredients to scale up or down from a recipe. Demonstrate a range of baking and cooking techniques.	
	Assemble or cook ingredients.	Follow a recipe.		
		Assemble or cook ingredients (controlling the temperature of the oven or hob if cooking)	Create and refine recipes, including ingredients, methods, cooking times and temperatures	
Textiles				
Textiles	Shape textiles using templates.	Understand the need for a seam allowance.	Create objects (such as a cushion) that employ a seam allowance.	
	Join textiles using running stitch. (Year 2)	Join textiles with appropriate stitching.	Join textiles with a combination of	
	Join textiles using glue. (Year 1)	Select the most appropriate techniques to decorate textiles.	stitching techniques (such as back stitch for seams and running stitch to attach decoration).	
	 Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing). 		Use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles (such as a soft decoration for comfort on a cushion).	
Mechanics	Create products using levers, wheels and winding mechanisms.	Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a	Convert rotary motion to linear using cams.	
		product (such as levers, winding mechanisms, pulleys and gears).		
			Use innovative combinations of electronics (or computing) and mechanics in product designs	