Progression of skills in Design and Technology											
		EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
Master practical skills	Food	Begin to understand some of the tools, techniques and process involved in food preparation. Have basic hygiene awareness.	Cut, peel or grate ingredients safely and hygienically. Measure or weigh using measuring cups or electronic scales. Assemble or cook ingredients. 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, folding and curling). Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen).		 Prepare ingredients hygienically using appropriate utensils. Measure ingredients to the nearest gram accurately. Follow a recipe. Assemble or cook ingredients (controlling the temperature of the oven or hob, if cooking). 		 Understand the importance of correct storage and handling of ingredients (using knowledge of micro-organisms). Measure accurately and calculate ratios of ingredients to scale up or down from a recipe. Demonstrate a range of baking and cooking techniques. Create and refine recipes, including ingredients, methods, cooking times and temperatures. 				
	Materials	 Safely use and explore a variety of materials, tools and techniques. Experiment with colour, design, texture, form and function. 			 Cut materials accurately and safely by selecting appropriate tools. Measure and mark out to the nearest millimetre. 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. 		 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 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). 				
	Textiles	Experiment with colour, design, texture, form and function.	Shape textiles using ter Join textiles using running Colour and decorate textechniques (such as dyeir printing).	nplates. g stitch. xtiles using a number of	Understand the need allowance. Join textiles with apple Select the most apple to decorate textiles.	d for a seam propriate stitching.		nce. combination of stitching lick stitch for seams and in decoration). materials to create tile effects in the such as a soft			
	Electricals and electronics		Diagnose faults in batte (such as low battery, waterminal damage).	•	Create series and pa	rallel circuits	Create circuits using employ a number of co LEDs, resistors, transis	omponents (such as			

	Computing		Model designs using software.	Control and monitor models using software designed for this purpose.	Write code to control and monitor models or products.	
	Construction • Learn to construct with a purpose in mind. • Safely use and explore a variety of tools and techniques.		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).	
	Mechanics		Create products using levers, wheels and winding mechanisms.	Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears).	Convert rotary motion to linear using cams. Use innovative combinations of electronics (or computing) and mechanics in product designs.	
Design, make, evaluate and improve		 Begin to use language of designing and making. Learn to construct with a purpose in mind. Begin to talk about changes made during the process. 	 Design products that have a clear purpose and an intended user. Make products, refining the design as work progresses. Use software to design. 	 Design with purpose by identifying opportunities to design. Make products by working efficiently (such as by carefully selecting materials). Refine work and techniques as work progresses, continually evaluating the product design. Use software to design and represent product designs. 	 Design with the user in mind, motivated by the service a product will offer (rather than simply for profit). Make products through stages of prototypes, making continual refinements. Ensure products have a high quality finish, using art skills where appropriate. Use prototypes, cross-sectional diagrams and computer aided designs to represent designs. 	
Take inspiration from design throughout history			 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 great designers in all of the areas of study (including pioneers in horticultural techniques) to generate ideas for designs. Improve upon existing designs, giving reasons for choices. Disassemble products to understand how they work. 	 Combine elements of design from a range of inspirational designers throughout history, giving reasons for choices. Create innovative designs that improve upon existing products. Evaluate the design of products so as to suggest improvements to the user experience. 	