Design and Technology LKS2

Design, make, evaluate and improve (For all topics below)	Design with purpose by identifying opportunities to research and design	
	Make products by working efficiently (such as by carefully selecting materials, textiles and ingredients according to their functional characteristics)	
	Refine work and techniques as work progresses, continually evaluating the product design	
	Use software to design and represent product designs	
	Investigate and analyse a range of existing products	
	Evaluate their ideas and products against their own design criteria	
Take inspiration from design throughout history	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	
Food	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	
	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)	
Materials	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	
Textiles	Understand the need for a seam allowance	
	Join textiles with appropriate stitching	
	Select the most appropriate techniques to decorate textiles	
Electricals and electronics	Create series and parallel circuits	
Computing	Control and monitor models using software designed for this purpose	
Construction	Choose suitable techniques to construct products or to repair items	
	Strengthen materials using suitable techniques	
Mechanics	Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears)	