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Progression of Skills Design and Technology Upper Key Stage 2		Developing, Planning and Communicating Ideas	 Investigate products/images to collect ideas Sketch and model alternative ideas Develop one idea in depth Combine modelling and drawing to refine ideas Plan the sequence of work using a storyboard Record ideas using annotated diagrams Use models, kits and drawings to help formulate design ideas Make prototypes Use found information to inform decisions Use a computer to model ideas Draw plans which can be read/followed by someone else Give a report using correct technical vocabulary
	Materials and Components – Knowledge and Understanding	Food	 Prepare food products taking into account the properties of ingredients and sensory characteristics Select and prepare foods for a particular purpose Taste a range of ingredients, food items to develop a sensory food vocabulary for use when designing. Weigh and measure using scales Cut and shape ingredients using appropriate tools and equipment e.g. grating Join and combine food ingredients appropriately e.g. beating, rubbing in Decorate appropriately Work safely and hygienically Show awareness of a healthy diet from an understanding of a balanced diet
		Textiles	 Create 3D products using pattern pieces and seam allowance Understand pattern layout Decorate textiles appropriately often before joining components Pin and tack fabric pieces together Join fabrics using over sewing, back stitch, blanket stitch or machine stitching (closer supervision) Combine fabrics to create more useful properties Make quality products
		Construction	 Use bradawl to mark hole positions Use hand drill to drill tight and loose fit holes Cut strip wood, dowel, square section wood accurately to 1mm Join materials using appropriate methods Incorporate motor and a switch into a model Control a model using an ICT control programme Use a cam to make an up and down mechanism. Build frameworks using a range of materials e.g. wood, card corrugated plastic to support mechanisms Use glue gun with close supervision
		Sheet materials	 Cut slots Cut accurately and safely to a marked line Join and combing materials with temporary, fixed or moving joinings Use craft knife, cutting mat and safety ruler under one to one supervision if appropriate Choose an appropriate sheet material for the purpose
		Evaluating	 Use the design criteria to inform their decisions about ways to proceed Justify their decisions about materials and methods of construction Reflect on their work using design criteria stating how well the design fits the needs of the user Identify what does and does not work in the product. Make suggestions as how their design could be improved



