

Areas		Design and Technology Skills	Years 5 and 6						
		Year:							
		Staff:							
To Master Practical Skills	FOOD	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.							
	MATERIALS	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	Create objects (such as a cushion) that employ a seam allowance.							
		Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration).							
	ELECTRICALS AND ELECTRONICS	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).							
		Create circuits using electronics kits that employ a number of components (such as LEDs, resistors, transistors and chips).							
	COMPUTING	Write code to control and monitor models or products.							
	CONSTRUCTION	Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filling and sanding).							
	MECHANICS	Convert rotary motion to linear using cams.							
Use innovative combinations of electronics (or computing) and mechanics in product designs.									
To design, make, evaluate and improve	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.								
To take inspiration from design throughout history	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								

