

All Saints' Catholic Primary School – Design Technology



	NC Purpose of Study			Aims		
ITERATIVE PROCESS OF DESIGNING AND MAKING	 To solve real and relevant problems Consider their own and others' needs, wants and values Take risks Evaluate, critical 			 Develop creative, technical and practical expertise Build and apply a repertoire of knowledge, understanding and skills Design and make high quality prototypes Critique, evaluate and test their ideas Work with others Understand and apply the principles of nutrition and learn how to cook 		
	Design	Make	Eva	luate	Technical knowledge	Cooking and Nutrition
KS1	 Purposeful, functional, appealing projects, based on design criteria Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups, and IT 	 Select from and use a range of tools and equipment to perform practical tasks (ie cutting, shaping, joining, finishing) Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics 	eva rang exis prod • Eva idea prod	ducts luate their as and ducts sinst design	 Build structures, exploring how they can be made stronger, stiffer and more stable Explore and use mechanisms (ie levers, sliders, wheels and axles) in their products 	 Use the basic principles of a healthy and varied diet to prepare dishes Understand where food comes from

KS2	 Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups Generate, develop, model and communicate their ideas through discussion, annotated sketches, crosssectional and exploded diagrams, prototypes, pattern pieces and computer aided design 	 Select from and use a wide range of tools and equipment to perform practical tasks (ie cutting, shaping, joining and finishing) accurately Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities 	 Investigate and analyse a range of existing products Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work Understand how key events and individuals in design and technology have helped shape the world 	 Apply their understanding of how to strengthen, stiffen and reinforce more complex structures Understand and use mechanical systems in their products (ie gears, pulleys, cams, levers ad linkages) Understand and use electrical systems in their products (ie series circuits, incorporating switches, bulbs, buzzers and motors) Apply their understanding of computing to program 	 Understand and apply the principles of a health 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 frown, reared, caught and processed
				program, monitor and control their products	