St John's Community Primary School – DT Curriculum Progression								
Area of Study	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Design	National Curriculum Pupils should be taught to: design purposeful, functional themselves and other users to generate, develop, model and through talking, drawing, ten where appropriate, informat technology	pased on design criteria d communicate their ideas aplates, mock-ups and,	National Curriculum. Pupils should be taught to: 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, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design					
	 Think of ideas and with help put them into practice Know what a design is and its purpose Use pictures and words to describe what they want to do (materials and tools) 		what they know about materials and components		 Use their knowledge of design and designers to further research to help influence their own design Create models or prototypes to show aspects design Produce step by step plans Use computer aided design Come up with solutions to problems as they happen. Take part in technical discussions about ideas Come up with solutions to problems as they happen. 			
Make	National Curriculum. Pupils should be taught to: select from and use a range of tools and equipment to perform practical tasks [e.g. cutting, shaping, joining and finishing] select from and use a wide range of materials and components, including construction materials, textiles and ingredients,							
	 Know what materials of the Know what a join is an increasing accuracy. Cut materials safely (so the Be careful to make work to make stronger (folding, rolling triangles). Know that textiles have insulation, texture and 	t materials with care and cissors) ork look as neat as possible materials for structure ng and joining, columns and e different properties: touch, d waterproof.	 Measure and mark out increasing accuracy (creating accuracy) Use scoring and folding accurately Make cuts accurately (make holes accurately) Join materials to make permanent and temporal materials of working and for a high quality finish 	g to shape materials scissors and saws) (drill, punch) products using both prary fastenings. re increasingly precise aiming textile(s) for a product.	 design Measure using mm and folding to shape mater Make cuts accurately a accurate and improve Joins are strong and st products. Some joins are flexible folding. 	and reject pieces that are not their technique. able, giving extra strength to to allow for dismantling or re precise so that products ish.		

	 Measure, mark out and cut fabric. Join fabrics using glue and running stitch. Make sure work is neat and tidy. 	 Use art textiles skills such as stitching to help create a product that is sturdy and fit for purpose. Combine materials to add strength or visual appeal 	 Combine art skills to add colour and texture to work. Mark out using patterns and templates Join textiles using art skills of stitching and embroidering to make durable and desirable products. 	
Evaluate	National Curriculum. Pupils should be taught to: explore and evaluate a range of existing products evaluate their ideas and products against design criteria	National Curriculum. Pupils should be taught to: 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		
	 Know / say what a product is Describe a product (who is it for, what is made from, how is it made, how it works) Talk about their own work (features, design, opinion) Describe how their product works Know the features of familiar products Give reasons for some features (colour choice, material used, joining technique) Explain why they chose certain materials, techniques and tools 	 Research and evaluate existing products to inform planning Understand that products are designed for a purpose (e.g. a problem, an audience, an event) Talk about own and others' work (features, design, opinion) Explain why they chose certain materials, techniques and tools Say how they would improve their product Identify what is working well and what can be improved (this is during the make as well as at the end) 	 Research and evaluate existing products giving reasons for the decisions of the designers (materials, design, tools, techniques) Use the ideas from current designers to help with plans Reflect on designs and develop them bearing in mind the way they will be used (during the process) 	
	National Curriculum. Pupils should be taught to: build structures, exploring how they can be made stronger, stiffer and more stable explore and use mechanisms [e.g. levers, sliders, wheels and axles], in their products	National Curriculum. Pupils should be taught to: apply their understanding of how to strengthen, stiffen and reinforce more complex structures understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] understand and use electrical systems in their products [e.g. series circuits incorporating switches, bulbs, buzzers and motors] apply their understanding of computing to program, monitor and control their products		
Technical Knowledge and Knowledge of designers	 Explore how moving objects work. Look at wheels, axels, turning mechanisms, hinges and simple levers. Make a product that moves using a turning mechanism (e.g. wheels, winding) or a lever or a hinge (to make a movement) Know what a designer does. Know the names and the products of some British designers Say what they like and dislike about the product and the designer 	 Know the application of mechanisms to create movement. Combine a number of components well in a product. Use simple circuits to either illuminate or create motion. Make a product that uses both electrical and mechanical components. Know that products have a good finish so that a user will find it both useful and attractive. Know some designers from history Talk about some of the tools, techniques and design used by the designer 	 Choose components that can be controlled by switches or by ICT equipment. Use science skills (resistance, circuits etc) to alter the way electrical products behave. Explore mechanical movement using hydraulics and pneumatics. Use other DT skills to create housings for mechanical components. Product are well finished in a way that would appeal to users Know how key events and individuals have influenced the world (in terms of products) Compare and contrast the work of different designers (e.g. historical and modern) 	
	National Curriculum. Pupils should be taught to:	National Curriculum. Pupils should be taught to:		

	use the basic principles of a healthy and varied diet to	understand and apply the principles of a healthy and varied diet			
	prepare dishes	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques			
	understand where food comes from	understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed			
	 With help, use knives safely 	 Select ingredients for a product with reasons 	 Explain why they have chosen ingredients in a dish 		
Cooking and Nutrition	Use a mixing bowl	 Work in a safe, hygienic way 	 Know why we need certain food types 		
	Be aware of hygiene for cooking	 Begin to measure out ingredients 	 Know about local produce 		
	 Know some things are made and some things are natural Know some things are dangerous to eat raw 	 Understand what is healthy and unhealthy Boil and bake to cook Understand why we need a healthy diet 	 Know where different crops can be found around the world and understand the concept of carbon footprints 		
	 Know heat changes food Use a variety of utensils safely Know what the food groups are 	 Use knowledge of the food groups to plan a lunch Know where food comes from Prepare a healthy meal (vegetable curry, Greek 	 Know different cultures have different diets Design and prepare a healthy dinner (Wartime meals and rationing) 		
	 Know where some foods come from Be aware there are different ways to cook Prepare a healthy snack 	breads)			