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Area of Study	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Design	<p>National Curriculum Pupils should be taught to:</p> <ul style="list-style-type: none"> - Design purposeful, functional, appealing products for themselves and other users based on design criteria. - Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, - where appropriate, information and communication - technology 		<p>National Curriculum. Pupils should be taught to:</p> <ul style="list-style-type: none"> - 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 			
	<ul style="list-style-type: none"> 🌱 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) 		<ul style="list-style-type: none"> 🌱 Think of ideas and plan what to do next, based on what they know about materials and components 🌱 Plan using specific materials and explain their choices 🌱 Select the appropriate tools, techniques and materials explaining my choices 🌱 Use pictures and words to describe what they want to do (materials, techniques, features-mechanics etc. and tools) 🌱 Communicate their ideas using labelled sketches giving reasons for choices 🌱 Start to produce step by step plans 		<ul style="list-style-type: none"> 🌱 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	<p>National Curriculum. Pupils should be taught to:</p> <ul style="list-style-type: none"> - 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, 		<p>National Curriculum. Pupils should be taught to:</p> <ul style="list-style-type: none"> - Select from and use a wider range of tools and equipment to perform practical tasks [e.g. cutting, shaping, joining and finishing]. - Accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities 			
	<ul style="list-style-type: none"> 🌱 Know what materials can be used for a structure 🌱 Know what a join is and use one 🌱 Measure and mark out materials with care and increasing accuracy 🌱 Cut materials safely (scissors) 🌱 Be careful to make work look as neat as possible 🌱 Find out how to make materials for structure stronger (folding, rolling and joining, columns and triangles) 🌱 Know that textiles have different properties: touch, insulation, texture and waterproof. 🌱 Select the appropriate textile so that it does the job. 🌱 Describe textiles by the way they feel. 		<ul style="list-style-type: none"> 🌱 Use appropriate materials and an appropriate join 🌱 Measure and mark out materials with care and increasing accuracy (cm) 🌱 Use scoring and folding to shape materials accurately 🌱 Make cuts accurately (scissors and saws) 🌱 Make holes accurately (drill, punch) 🌱 Join materials to make products using both permanent and temporary fastenings. 🌱 Methods of working are increasingly precise aiming for a high quality finish 🌱 Select the appropriate textile(s) for a product. 🌱 Use sharp scissors accurately to cut textiles. 		<ul style="list-style-type: none"> 🌱 Select from a variety of materials best suited to a design 🌱 Measure using mm and then use scoring, and folding to shape materials accurately. 🌱 Make cuts accurately and reject pieces that are not accurate and improve their technique. 🌱 Joins are strong and stable, giving extra strength to products. 🌱 Some joins are flexible to allow for dismantling or folding. 🌱 Methods of working are precise so that products have a high quality finish. 🌱 Use computer programming when creating a product 	

	<ul style="list-style-type: none">  Measure, mark out and cut fabric.  Join fabrics using glue and running stitch.  Make sure work is neat and tidy. 	<ul style="list-style-type: none">  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 	<ul style="list-style-type: none">  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	<p>National Curriculum. Pupils should be taught to: explore and evaluate a range of existing products evaluate their ideas and products against design criteria</p>	<p>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</p>		
	<ul style="list-style-type: none">  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 	<ul style="list-style-type: none">  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) 	<ul style="list-style-type: none">  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) 	
Technical Knowledge and Knowledge of designers	<p>National Curriculum. Pupils should be taught to:</p> <ul style="list-style-type: none"> - 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 	<p>National Curriculum. Pupils should be taught to:</p> <ul style="list-style-type: none"> - 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 		
	<ul style="list-style-type: none">  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 	<ul style="list-style-type: none">  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 	<ul style="list-style-type: none">  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) 	

Cooking and Nutrition	National Curriculum. Pupils should be taught to: <ul style="list-style-type: none"> - Use the basic principles of a healthy and varied diet to prepare dishes - Understand where food comes from 	National Curriculum. Pupils should be taught to: <ul style="list-style-type: none"> - 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 	
	<ul style="list-style-type: none"> 🌱 With help, use knives safely 🌱 Use a mixing bowl 🌱 Be aware of hygiene for cooking 🌱 Know some things are made and some things are natural 🌱 Know some things are dangerous to eat raw 🌱 Know heat changes food 🌱 Use a variety of utensils safely 🌱 Know what the food groups are 🌱 Know where some foods come from 🌱 Be aware there are different ways to cook 🌱 Prepare a healthy snack 	<ul style="list-style-type: none"> 🌱 Select ingredients for a product with reasons 🌱 Work in a safe, hygienic way 🌱 Begin to measure out ingredients 🌱 Understand what is healthy and unhealthy 🌱 Boil and bake to cook 🌱 Understand why we need a healthy diet 🌱 Use knowledge of the food groups to plan a lunch 🌱 Know where food comes from 🌱 Prepare a healthy meal (such as a healthy picnic or a survival stew) 	<ul style="list-style-type: none"> 🌱 Explain why they have chosen ingredients in a dish 🌱 Know why we need certain food types 🌱 Know about local produce 🌱 Know where different crops can be found around the world and understand the concept of carbon footprints 🌱 Know different cultures have different diets 🌱 Design and prepare a healthy dinner (such as a healthy meal for school inspired by Jamie Oliver)