	DT overview						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Sumn		
Year 1	Marvellous Me Knowledge	Toys Knowledge	Jack and the Beanstalk Knowledge	The Very Hungry Caterpillar Knowledge	The Three Know		
		Mechanisms A toy with wheels and axles		Food Healthy fruit salad for the Hungry Caterpillar • Talk about what he/she eats at home and begin to discuss what healthy foods are. • Say where some food comes from and give examples of food that is grown.	Struct A house for the t		
	Skills	 Skills Use a range of simple tools to cut, join and combine materials and components safely. Ask simple questions about existing products and those that he/she has made. products Create simple designs for a product. Select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing. Use wheels and axles in a product Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products 	Skills	 Skills Create simple designs for a product. Use pictures and words to describe what he/she wants to do. Use simple tools with help to prepare food safely. Ask simple questions about existing products and those he/she has made 	 Ski Create si for a pro Use pictu to descri wants to Select fro range of equipme practical cutting, s and finisi Ask simp about ex and thos made. Build stru exploring be made and more 		

nmer 1	Summer 2
e Little Pigs wledge	The Lighthouse Keepers Lunch Knowledge
ictures three little pigs	
kills simple designs roduct. ctures and words cribe what he/she to do. from and use a of tools and nent to perform al tasks e.g. shaping, joining ishing. nple questions existing products ose he/she has tructures, ng how they can de stronger, stiffer ore stable.	Skills

Year 2	Stranded Knowledge	Heroes Knowledge	Great Fire of London Knowledge	Falmouth Knowledge	Min Know
	Structures Making a toy boat	Food A healthy snack fit for a hero. • Understand the need for a variety of food in a diet. • Understand that food has to be farmed, grown or caught.			Mecha Making a mo
	 Skills Design purposeful, functional, appealing products for himself/herself and other users based on design criteria. Generate, develop, model and communicate his/her ideas through talking, drawing, templates mock-ups and, where possible information and communication technology. Choose appropriate tools, equipment, techniques and materials from a wide range. Safely measure, mark out, cut and shape materials and components using a range of tools. 	 Skills Use a wider range of cookery techniques to prepare food safely. Design purposeful, functional, appealing products for himself/herself and other users based on design criteria. Generate, develop, model and communicate his/her ideas through talking, drawing, templates mock-ups and, where possible information and communication technology. Choose appropriate tools, equipment, techniques and materials from a wide range. Evaluate and assess existing products and those that he/she has made using a design criterion. 	Skills	Skills	Skills Design pu functiona products himself/f other use design cr Generate model ar his/her ic talking, d template and, whe informat commun technolo Choose a tools, equ techniqu materials range. Safely me out, cut a materials compone range of Evaluate existing p those tha made usi criterion.

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Year 3	Africa Knowledge	The Victorians Knowledge	Extreme weather	Stone age	Coasts Knowledge	Cornwall Knowledge
	Mechanisms Making a moving African animal • Understand how mechanical systems such as levers and linkages or pneumatic systems create movement.	Textiles Victorian cross stitch Christmas cards				Food Making scones Talk about the different food groups and name food from each group. Understand that food has to be grown, farmed or caught in Europe and the wider world.
	 Skills Use knowledge of existing products to design his/her own functional product. Create designs using annotated sketches, cross-sectional diagrams and simple computer programmes. Safely measure, mark out, cut, assemble and join with some accuracy. Make suitable choices from a wider range of tools and unfamiliar materials and plan out the main stages using them. Investigate and analyse existing products and those he/she has made, considering a wide range of factors. 	 Skills Use knowledge of existing products to design his/her own functional product. Create designs using annotated sketches, cross-sectional diagrams and simple computer programmes. Make suitable choices from a wider range of tools and unfamiliar materials and plan out the main stages using them. Investigate and analyse existing products and those he/she has made, considering a wide range of factors. Safely measure, mark out, cut, assemble and join with some accuracy. Strengthen frames using diagonal struts. 	Skills	Skills	Skills	 Skills Use a wider variety of ingredients and techniques to prepare and combine ingredients safely. Use knowledge of existing products to design his/her own functional product. Create designs using annotated sketches, cross-sectional diagrams and simple computer programmes. Make suitable choices from a wider range of tools and unfamiliar materials and plan out the main stages using them. Investigate and analyse existing products and those he/she has made, considering a wide range of factors.

Year 4	Tudors Knowledge	Europe Knowledge	Evacuees Knowledge	School grounds Knowledge	Romans Knowledge	Dynamic Earth Knowledge
		Food Cooking around Europe • Understand what makes a healthy and balanced diet and that different foods and drinks provide different substances the body needs to be healthy and active. • Understand seasonality and the advantages of eating seasonal and locally produced food.			Structures Make a watch out tower • Use knowledge of existing products to design a functional and appealing product for a particular purpose and audience. • Use his/her knowledge of techniques and the functional and aesthetics qualities of a wide range of materials to plan how to use them.	Electrical systems A model volcano with a buzzer to create an earthquake effect or a red bulb light up volcano to represent lava • Use knowledge of existing products to design a functional and appealing product for a particular. • Use his/her knowledge of techniques and the functional and aesthetics qualities of a wide range of materials to plan how
	Skills	Skills • Read and follow recipes which involve serval processes, skills and techniques. • Use knowledge of existing products to design a functional and appealing product for a particular purpose and audience	Skills	Skills	 Skills Create designs using exploded diagrams. Use techniques which require more accuracy to cut, shape, join and finish his/her work e.g. cutting internal shapes, slots in framework. Consider how existing products and his/her own finished products might be improved and how well they meet the needs pf the intended user. Apply techniques he/she has learnt to strengthen structures and explore his/her own ideas. 	to use them. Skills Understand and use electrical systems in products. Create designs using exploded diagrams. Use techniques which require more accuracy to cut, shape, join and finish his/her work e.g. cutting internal shapes, slots in framework. Consider how existing products and his/her own finished products might be improved and how well they meet the needs pf the intended user.

Year 5	Vikings Knowledge	Life in a freezer Knowledge	Greeks Knowledge	London Knowledge	Theme parks around the world Knowledge	May the force be with you Knowledge
		Textiles Design and make a hat or gloves	Food Making a Greek themed dessert/savoury dish			Mechanisms/Electrical systems Design and make an automaton
			 Understand the main food groups and the different nutrients that are important for health. Understand how a variety of ingredients are grown, reared, caught and processed to make them safe and palatable/tasty to eat. 			• Understand how to use more complex mechanical and electrical systems.
	Skills	Skills	Skills	Skills	Skills	Skills
		 Use his/her research into existing products and his/her market research to inform the design of his/her own innovative product. Create prototypes to show his/her ideas. Make careful and precise measurements so that joins, hole and opening are in exactly the right place. Produce step by step plans to guide his/her making, demonstrating that he/she can apply his/her knowledge of different materials, tools and techniques. Make detailed evaluations about existing products and his/her own considering the views of others to improve his/her work. 	 Use his/her research into existing products and his/her market research to inform the design of his/her own innovative product. Select appropriate ingredients and use a wide range of techniques to combine them. Produce step by step plans to guide his/her making, demonstrating that he/she can apply his/her knowledge of different materials, tools and techniques. Make detailed evaluations about existing products and his/her work. 			 Use his/her research into existing products and his/her market research to inform the design of his/her own innovative product. Build more complex 3D structures and apply his/her knowledge of strengthening techniques to make them stronger or more stable. Use more complex mechanical and electrical systems. Make detailed evaluations about existing products and his/her own considering the views of others to improve his/her work.

Year 6	Mapping it out Knowledge	Egyptians Knowledge	WW2 Knowledge	Rainforest survival Knowledge	Iron Age Knowledge	Moving on – natural disasters Knowledge
	Food Design and make a series of healthy meals from around the world. • Use information on food labels to inform choices.			Textiles Design and make an innovative item of clothing to help someone survive in a rainforest • Use research he/she has done into famous designers and inventors to inform the design of his/her own innovative products.		Electrical systems Apply his/her knowledge understanding of computing to program, monitor and control his/her product.
	Skills	Skills	Skills	Skills	Skills	Skills
	 Research, plan and prepare and cook a savoury dish applying his/her knowledge of ingredients and his/her technical skill. Confidently plan a series of healthy meals based on the principles of a healthy and varied diet. Apply his/her knowledge accurate skills to problem solve during the making process. 			 Generate, develop, model and communicate his/her ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer- aided design. Apply his/her knowledge of materials and techniques to refine and rework his/her product to improve its functional properties and aesthetic qualities. Apply his/her knowledge accurate skills to problem solve during the making process. Use his/her knowledge of famous designs to further explain the effectiveness of existing products and products he/she have made. Use a wide range of methods to strengthen, stiffen and reinforce complex structures an can use them accurately and appropriately. 		 Generate, develop, model and communicate his/her ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer- aided design. Apply his/her knowledge of materials and techniques to refine and rework his/her product to improve its functional properties and aesthetic qualities. Apply his/her knowledge accurate skills to problem solve during the making process. Apply his/her understanding of computing to program, monitor and control his/her product