

2021 DT Progression Ov						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Stone Age Iron Age, Bronze Age		United Kingdom – Great Fire of London		United Kingdom – History of Harrogate and Coppice Valley	
Inspiration	plants or	all food comes from animals. ood has to be farmed,	designer, engineer, c Children's designs are ins		have a clear purpo	ng to design products that se and an intended user. state what products they
	Children can descr between some food vegetal Children understa	nd what food was Stone Age and how it		ner, engineer, chef or acturer.	Children can gener their ow Children use thei	ing and making. rate ideas by drawing on n experiences. r knowledge of existing o come up with ideas.
Invention	and shaping techniq cutting, foldin Children can cut, pee safely and h	te a range of cutting ues (such as tearing, g and curling). I or grate ingredients hygienically. ash hands and clean aring any food items.	Children understand how and know where we may Children design a pro mecha	duct that uses a slider	Children can say wh suitable for its purpe and a Children are able t materials and comp	mplates to shape textiles. ether a material would be ose based on its durability ppearance. to select from a range of conents according to their acteristics.



		Primary Schoo
Children can cut card and paper safely using scissors.		
Children can create products that use wheels to move.		
Children can plan by suggesting what to do next.		
Children can evaluate their designs and products by saying what they like or dislike.	Children can identify their likes and dislikes of current products and designs.	Children can colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing).
		Make products, refining the design as work progresses.
Romans in Britain	Europe - Ancient Greeks	Europe – The French Revolution
Children will demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen).	Children can name and sort foods into the five food groups.	Children will use the work of a European inventor, designer, engineer, chef or manufacturer to generate ideas for designs.
	Children know that everyone should eat at least five portions of fruit and vegetables every day.	Children should be able to talk about what they like and dislike about a product and give reasons for their opinions.
Children can measure and mark out to the nearest centimetre.	Children can measure or weigh ingredients using measuring cups or electronic scales.	Children can join textiles using running stitch.
	scissors. Children can create products that use wheels to move. Children can plan by suggesting what to do next. Children can evaluate their designs and products by saying what they like or dislike. Romans in Britain Children will demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen). Children can measure and mark out to the	scissors. Children can create products that use wheels to move. Children can plan by suggesting what to do next. Children can evaluate their designs and products by saying what they like or dislike. Children can evaluate they like or dislike. Children will demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen). Children can name and sort foods into the five food groups. Children can measure and mark out to the Children can measure or weigh ingredients using



	Use materials to practise d gluing and nailing materia strengthen proc	als to make and		Children can use simple design criteria to help develop their ideas.
	Children are able to expl models will we	lain how their		Children can use information and communication technology, where appropriate, to develop and communicate their ideas.
	Children are able to descu products are f			
	Children are able to say how their products suitable for users.	•		
	Children can select from a and equipment, explainin	•		
Improvement	Children will design a product that makes use of a winding mechanism.		Children can prepare simple dishes safely and hygienically, without using a heat source.	Children are beginning to evaluate their ideas and products against a design criteria.
	Children model ideas by exploring materials, components and construction kits and by making templates and mock-ups.			Children can develop and communicate ideas by talking and drawing.
Year 3	Anglo-Saxons Vil	kings up to 1066	Americas – Maya Civilisation	Americas – Civil Rights Movement
Inspiration	Children can follow a simple recipe. Children know that a healthy diet is made		Children can cut materials accurately and safely by selecting appropriate tools.	Children use the work of an American inventor, designer, engineer, chef or manufacturer to generate ideas for designs.
	up from a variety and bala food and drir		Children can measure and mark out materials to the nearest millimetre.	



			Primary Schoo
	 Children know that food ingredients can be fresh, pre-cooked and processed. Children know that food is grown reared and caught in the UK, Europe and the wider world and can give examples of food and where it comes from. Children know that to be active and healthy, food and drink are needed to provide energy for the body. Children know that different food and drink contain different substances – nutrients, water and fibre – that are needed for 	Strengthen materials using suitable techniques. Design with purpose by identifying opportunities to design.	Primary Schoo
Invention	health. Children can prepare ingredients hygienically using appropriate utensils. Children can measure ingredients to the nearest gram accurately. Children think about what could be added or taken away from a meal to make it healthier.	Children can join textiles with appropriate stitching. Children understand why the earthquakes in San Franciso were so destructive. Children design and build a model of a building that would withstand an earthquake. Children can use software to design and represent product designs.	Children make products by working efficiently and carefully selecting suitable materials. Children can create series and parallel circuits. Children can explain how particular parts of their products work.



			Primary School
Improvement	Children brainstorm different combinations of ingredients for a soup and decide which would be healthier and tastier.	Children recognise why structures are built the way they are to withstand natural disasters, water damage and fire.	Children can refine work and techniques as work progresses, continually evaluating the product design in their sketchbooks. Children will disassemble products to help
		Children improve upon existing designs, giving reasons for choices.	them understand how they work. Children can troubleshoot why a circuit may not be working and perform relevant checks.
Year 4	The Tudors	Africa – Ancient Egyptians	Africa – Scramble for Africa
Inspiration	Children can assemble or cook healthy ingredients (controlling the temperature of the oven or hob, if cooking).	Children apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs). Children select appropriate joining techniques/	Use the work of an African inventor, designer, engineer, chef or manufacturer to generate ideas for designs.
		resources.	
Invention	Children can use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.	Children create products using levers, pulleys and gears.	Children select the most appropriate techniques to decorate textiles.
	Children can prepare and cook a variety of predominantly savoury dishes safely and	Children develop their own design criteria and use these to inform their ideas.	Children choose suitable techniques to construct products or to repair items.
	hygienically including, where appropriate, the use of a heat source	Children can order the main stages of the making of their product.	Children generate realistic ideas, focusing on the needs of the user.
	Children can follow procedures for hygiene and safety.		Children make design decisions that take account of the availability of resources.



Improvement	Children can gather information about the needs and wants of particular individuals and groups and take this into account when	Children can use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding	Children understand the need for a seam allowance.
	developing the final product.	mechanisms, pulleys and gears.)	
Year 5	Civil War	Asia – Genghis Khan	Asia - Birth of Modern Religions
Inspiration	Children know that seasons may affect the food available.	Children combine elements from the work of Asian inventors, designers, engineers, chefs or	Create objects that employ a seam allowance.
	Children know how food is processed into ingredients that can be eaten or used in cooking.	manufacturers to generate ideas for designs, giving reasons for choices.	Children 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).
Invention	Children know that recipes can be adapted to change the appearance, taste, texture and aroma.	Children 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).	Children can join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach
	Children can create circuits using electronics kits that employ several components (such as LEDs, resistors, transistors and chips.) - Link to Physics	Children develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filling and sanding).	decoration).
		Children can use software to design.	
Improvement	Children know that a recipe can be adapted by adding or substituting one or more ingredients.	Children can evaluate the design of products and suggest improvements to the user experience.	Children practice and evaluate their stitching methods before using to create the final product.



		Children exects innersting designs that increases	Primary School
		Children create innovative designs that improve upon	
		existing products.	
Year 6	Victorian – Harrogate and medical	Victorian – Suffrage and social reform	Victorian – Empire and Exploration
	advancement		
Inspiration		Where relevant, children can survey their target	Children take apart toys with mechanisms to
		audience and use this to generate ideas.	try and understand how they work and why
			they're successful.
		Combine elements from the work of British inventors,	
		designers, engineers, chefs or manufacturers to	Children can indicate the design features of
		generate ideas for designs, giving reasons for choices.	their products that will appeal to intended
		Scherdie lacas for acalgias, giving reasons for choices.	users.
		Children understand and apply the principles of a	
		healthy and varied diet.	
		Children understand seasonality, and know where and	
		how a variety of ingredients are grown, reared, caught	
		and processed.	
Invention		Children show an understanding of the qualities of	Children can convert rotary motion to linear
		materials to choose appropriate tools to cut and	using cams.
		shape.	
			Children know mechanical systems such as
		Children can carry out research, using surveys,	cams or pulleys or gears create movement.
		interviews, questionnaires and web-based resources.	
			Children generate innovative ideas, drawing
		Children can identify the needs, wants, preferences	on research.
		and values of particular individuals and groups and use	
		this information to inform their designs.	Children can make design decisions, taking
			account of constraints such as time, resources
			and cost.



	Primary School
Children use innovative combinations of electronics (or	
computing) and mechanics in product designs.	Children can formulate step-by-step plans as a guide to making their product.
Children use their knowledge of science and art when	
designing.	Children produce appropriate lists of tools,
Children know that a 2D toxtiles product can be made	equipment and materials that they need.
Children know that a 3D textiles product can be made from a combination of fabric shapes.	
Children select from and use a wider range of tools and	
equipment to perform practical tasks [for example,	
cutting, shaping, joining and finishing], accurately	
Children 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.	
Children can measure and cut materials to the nearest	
millimetre.	
Children can make stable and strong joins so the	
Children can make stable and strong joins so the product can withstand regular use.	
Children can prepare and cook a variety of	
predominantly savoury dishes using a range of cooking	
techniques.	



		Flindig School
Improvement	Children can suggest some alternative designs and	Children ensure products have a high-quality
	compare the benefits and drawbacks to inform the	finish, using art skills where appropriate.
	design process and outcome.	
		Children model their ideas using prototypes
	Children first make prototypes to inform their final	and pattern pieces.
	product.	
		Children make products through stages of
		prototypes, making continual refinements.