






KS1		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 1		Me Myself and I	Celebrations	Happily Ever After	Amazing Animals	Roots, Shoots and Juicy Fruits	Land Ahoy
	Unit			Structures Castle Design		Food and Nutrition- Prepare Fruit/Veg Smoothies?	Mechanisms- levers (hinges) Pirate lunchbox
	Brief			To build a strong castle.		To prepare healthy smoothies using fruit and vegetables. https://www.kapowprimary.com/subjects/design-technology/key-stage-1/year-1/cooking-and-nutrition-smoothies/	To create a practical lunchbox for a pirate at Sea!
	NC Objectives:			<p>Research: To be able to understand how a product works and how it is used.</p> <p>Design/Plan: To be able to use a range of different techniques for joining materials.</p> <p>To be able to generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <p>Make: To be able to select from and use a range of tools and equipment to perform practical tasks (for</p>		<p>Research: To be able to understand what a product is and who it is for.</p> <p>To be able to explore and evaluate a range of existing products.</p> <p>Design/Plan: To be able to select from and use a wide range of ingredients according to their characteristics. (taste, smell, texture)</p> <p>Make: To be able to select from and use a range of tools and equipment to perform practical tasks (cutting).</p>	<p>Research: To be able to understand how a product works and how it is used.</p> <p>To be able to identify where you might find this product.</p> <p>Design/Plan: To be able to use a range of different techniques for joining materials.</p> <p>To be able to generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <p>Make:</p>

			<p>example, cutting, shaping, joining and finishing).</p> <p>To be able to select from and use a wide range of materials and components, including construction materials, according to their characteristics.</p> <p>Evaluate: To be able to explore and evaluate a range of existing products. (could be used in research lessons)</p> <p>To evaluate their own ideas and products against design criteria.</p> <p>Technical Knowledge: To be able to build structures, and explore how they can be made stronger, stiffer and more stable.</p>		<p>Evaluate: To evaluate their own ideas and products against design criteria.</p> <p>Cooking and Nutrition: To be able to understand where food comes from. (covered in launch?)</p> <p>To know the basic principles of healthy and varied diet to prepare dishes. (covered in Jigsaw)</p>	<p>To be able to select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing).</p> <p>To be able to select from and use a wide range of materials and components, including construction materials, according to their characteristics.</p> <p>Evaluate: To be able to explore and evaluate a range of existing products. (could be used in research lessons)</p> <p>To evaluate their own ideas and products against design criteria.</p> <p>Technical Knowledge: To be able to explore and use mechanisms (levers-hinges) in their products.</p>
	Example		<p>Local castles: Whitstable Rochester Walmer Dover</p>		<p>Kids smoothie recipes widely available online: https://www.bbcgoodfood.com/recipes/collection/kid</p>	<p>See Twinkl planning to adapt for SMC</p>




						s-smoothie-recipes 	
	Cross-curricular coverage					To be able to understand where food comes from (Term 4- Launch lesson) To know the basic principles of healthy and varied diet to prepare dishes. (Jigsaw-Healthy Me)	
Year 2		The Big Smoke	London's Burning	Australia- Aboriginal	Australia- Geog	Down at the Bottom of the Garden	Ocean Explorers
	Unit		Mechanisms- wheels and axels Fire of London- Fire engines		Food and Nutrition Healthy Wraps https://www.kapowprimary.com/subjects/design-technology/key-stage-1/year-2/cooking-and-nutrition-balanced-diet/	Structures Bug Hotels	
	Brief		To make a fire engine with functioning wheels.		To select and prepare healthy ingredients for a balance packed lunch wrap.	To construct a hotel for insects in the school grounds	
	NC Objectives:		Research: To be able to understand how a product works and how it is used. To be able to identify where you might find this product.		Research: To be able to understand what a product is and who it is for. To be able to explore and evaluate a range of existing products.	Research: To be able to understand how a product works and how it is used. Design/Plan:	



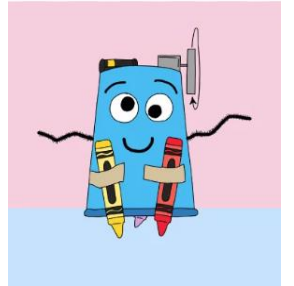
			<p>To be able to identify the materials used to make a product.</p> <p>To be able to express an opinion about a product.</p> <p>Design/Plan: To be able to use a range of different techniques for joining materials.</p> <p>To be able to use materials and tools with care and precision.</p> <p>To be able to design purposeful, functional and appealing products for themselves and other users based on design criteria.</p> <p>To be able to generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <p>Make: To be able to select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing).</p> <p>To be able to select from and use a wide range of materials and components, including construction materials, textiles and</p>		<p>Design/Plan: To be able to select from and use a wide range of ingredients according to their characteristics. (taste, smell, texture)</p> <p>Make: To be able to select from and use a range of tools and equipment to perform practical tasks (for example, peeling, cutting, grating, mashing).</p> <p>Evaluate: To evaluate their own ideas and products against design criteria.</p> <p>Cooking and Nutrition: To be able to understand where food comes from. (covered in launch?)</p> <p>To know the basic principles of healthy and varied diet to prepare dishes. (covered in Jigsaw)</p>	<p>To be able to use a range of different techniques for joining materials.</p> <p>To be able to generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <p>Make: To be able to select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing).</p> <p>To be able to select from and use a wide range of materials and components, including construction materials, according to their characteristics.</p> <p>Evaluate: To be able to explore and evaluate a range of existing products. (could be used in research lessons)</p> <p>To evaluate their own ideas and products against design criteria.</p> <p>Technical Knowledge: To be able to build structures, and explore how they can be made stronger, stiffer and more stable.</p>	
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			<p>ingredients, according to their characteristics.</p> <p>Evaluate: To be able to explore and evaluate a range of existing products.</p> <p>To evaluate their own ideas and products against design criteria.</p> <p>Technical Knowledge: To be able to build structures, and explore how they can be made stronger, stiffer and more stable.</p> <p>To be able to explore and use mechanisms (sliders, wheels and axles) in their products.</p>				
	Example						
	Cross-curricular coverage:						

LKS 2		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Yea r 3		Viva Espana	Surviving the Stone Age	It's All Greek	Angry Earth	Kings, Knights and Battles	Faversham and Beyond - Explosive Nature
	Unit	Food and Nutrition- Prepare and Cook, Eating Seasonally Spanish Omelettes (Frying)			Structure Earthquake proof memory box- using lollystick and strong card/balsa wood?		Mechanisms- wheel and axels Waterwheel miniature garden feature
	Brief	To make an authentic Spanish omelette using seasonal ingredients,			To design and make a box that can survive an earthquake keeping precious items safe.		To design and make a garden water feature using axles and wheels which turns when water is poured on to it.
	NC Objectives:	Research: To be able to investigate and analyse a range of existing products. To be able to identify what the product has been made from. To be able to evaluate the product on its design and use. Design/Plan: To be able to use research and develop design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at particular individuals or groups. Make: To be able to select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, peeling, grating) accurately.			Research: To be able to investigate and analyse a range of existing products. To be able to identify what the product has been made from. To be able to evaluate the product on its design and use. Design/Plan: To be able to use research and develop design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at particular individuals or groups. Make: To be able to select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, peeling, grating) accurately.		Research: To be able to investigate and analyse a range of existing products. To be able to identify what the product has been made from. To be able to evaluate the product on its design and use. Design/Plan: To be able to use research and develop design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at particular individuals or groups. Make: To be able to select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, peeling, grating) accurately.





		<p>Evaluate: To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>Cooking and Nutrition: To be able to understand and apply the principles of a healthy and varied diet.</p> <p>To be able to prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</p>			<p>Evaluate: To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>Technical Knowledge: To be able to apply their understanding of how to strengthen, stiffen and reinforce more complex structures.</p>		<p>Evaluate: To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>To understand how key events and individuals in design and technology have helped shape the world. (can be linked to research lessons)</p> <p>Technical Knowledge: To be able to understand and use mechanical systems in their products (wheels, gears and axels)</p>
							
	Cross-curricular coverage:						
Year 4		Jambo	Mummies, Pharaohs and Pyramids	Rotten Romans	Wild Water	Terrible Tudors	Faversham and Beyond – Beer and Beyond
	Unit	<p>Food and Nutrition- Prepare, cook and adapt</p> <p>Cooking linked to Africa- "crunchies"- adapt a recipe (Adapting a recipe/baking)</p> <p>https://www.kapowprimary.com/subjects/design-technology/lower-key-stage-2/year-4/new-</p>			<p>Mechanism- Pulleys</p> <p>Bridges over water- pulley system to move bridge up and down</p>		<p>Electrical Systems</p> <p>Torches or Doodlers (Kapow units)</p> <p>https://www.kapowprimary.com/subjects/design-technology/upper-key-stage-2/year-5/electrical-systems-doodlers/</p>

		<p>cooking-and-nutrition-adapting-a-recipe/</p>					
		<p>Research: To be able to investigate and analyse a range of existing products.</p> <p>To be able to identify what the product has been made from.</p> <p>To be able to evaluate the product on its design and use.</p> <p>Design/Plan: To be able to use research and develop design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at particular individuals or groups.</p> <p>Make: To be able to select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, peeling, grating) accurately.</p> <p>Evaluate: To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>Cooking and Nutrition:</p>			<p>Research: To be able to investigate and analyse a range of existing products.</p> <p>To be able to identify what the product has been made from.</p> <p>To be able to evaluate the product on its design and use.</p> <p>Design/Plan: To be able to use research and develop design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at particular individuals or groups.</p> <p>To be able to generate, develop, model and communicate their ideas through discussion, annotated sketches.</p> <p>Make: To be able to select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing) accurately.</p> <p>Evaluate: To be able to evaluate their ideas and products against their own design criteria and consider the</p>		<p>Research: To be able to investigate and analyse a range of existing products.</p> <p>To be able to identify what the product has been made from.</p> <p>To be able to evaluate the product on its design and use.</p> <p>Design/Plan: To be able to use research and develop design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at particular individuals or groups.</p> <p>To be able to generate, develop, model and communicate their ideas through discussion, annotated sketches.</p> <p>Make: To be able to select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing) accurately.</p> <p>Evaluate: To be able to evaluate their ideas and products against their own design criteria and consider the</p>

	<p>To be able to understand and apply the principles of a healthy and varied diet.</p> <p>To be able to prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</p>			<p>views of others to improve their work.</p> <p>To understand how key events and individuals in design and technology have helped shape the world. (can be linked to research lessons)</p> <p>Technical Knowledge: To be able to apply their understanding of how to strengthen, stiffen and reinforce more complex structures.</p> <p>To be able to understand and use mechanical systems in their products (pulleys).</p>		<p>views of others to improve their work.</p> <p>Technical Knowledge: To be able to understand and use electrical systems in their products (e.g. series circuits incorporating bulbs/motors)</p>
Brief	<p>To adapt a traditional African recipe to suit the preferences of the customer.</p>			<p>To design and make a bridge that lifts to allow large boats underneath.</p>		<p>To make a handheld torch that uses an on/off switch.</p> <p>To make a doodler device that uses electronic components to doodle on a page.</p>
	<p>https://sharingdeliciousness.com/south-african-crunchies/</p> 			<p>Pulley bridge Working Model</p> 		

UKS2		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
		Let's Explore ... the Americas	Maya and Beyond	Raid, Invade and Stayed	Rumble in the Jungle	World at War	Faversham and Beyond
	Unit		Structures Rocket Building	Mechanisms- Levers Catapults and Trebuchets			Food and nutrition- Prepare, cook, adapt for dietary needs or preferences. Awareness of seasonality, where and how produce is sourced and processed. Bolognese https://www.kapowprimary.co.uk/subjects/design-technology/upper-key-stage-2/year-5/new-cooking-and-nutrition-developing-a-recipe/
Year 5	NC Objectives:		<p>Research: To be able to identify who made the product, when it was made and what its purpose is.</p> <p>To be able to evaluate product on design, appearance and use,</p> <p>Design/Plan: To be able to generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>Make: To be able to select from and use a wider range of materials and components, including construction</p>	<p>Research: To be able to identify who made the product, when it was made and what its purpose is.</p> <p>To be able to identify what the product is made from and how environmentally friendly the materials are.</p> <p>To be able to evaluate product on design, appearance and use,</p> <p>Design/Plan: To be able to generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams and prototypes.</p> <p>Make:</p>			<p>Research: To be able to identify who made the product, when it was made and what its purpose is.</p> <p>To be able to identify what the product is made from and how environmentally friendly the materials are. (food miles/carbon footprint?)</p> <p>To be able to evaluate product on design, appearance and use.</p> <p>Design/Plan: To be able to generate, develop, model and communicate their ideas through discussion and annotated sketches.</p> <p>Make:</p>

		<p>materials, according to their functional properties and aesthetic qualities.</p> <p>Evaluate: To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>To understand how key events and individuals in design and technology have helped shape the world.</p> <p>Technical Knowledge: To be able to apply their understanding of how to strengthen, stiffen and reinforce more complex structures.</p>	<p>To be able to select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities.</p> <p>Evaluate: To be able to investigate and analyse a range of existing products. (Can be used in research lesson)</p> <p>To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>To understand how key events and individuals in design and technology have helped shape the world.</p> <p>Technical Knowledge: To be able to apply their understanding of how to strengthen, stiffen and reinforce more complex structures.</p> <p>To be able to understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages).</p>		<p>To be able to select from and use a wider range of ingredients, according to their functional properties and aesthetic qualities.</p> <p>Evaluate: To be able to investigate and analyse a range of existing products. (Can be used in research lesson)</p> <p>To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>Cooking and Nutrition: To be able to understand and apply the principles of a healthy and varied diet.</p> <p>To be able to prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</p> <p>To be able to understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed. (Can be used for research lessons)</p>
	Brief	To make an aerodynamic rocket design that will fly in a simulated test,	To make a trebuchet using levers and weights to launch items across a distance,		To design a Bolognese recipe to suit varied dietary requirement and preferences.

				 			
Year 6		Let's Explore ... Asia	Invention and Industry	Bombs, Battles and Blitz	Eco Warriors	Who dunnit?	Faversham and Beyond
	Unit		Mechanisms- Cams Moving toys	Electrical systems Steady Hand Game			Food and Nutrition Come Dine with Me https://www.kapowprimary.co.uk/subjects/design-technology/upper-key-stage-2/year-6/new-cooking-and-nutrition-come-dine-with-me/
	Brief		- To make moving toys without electricity.	- To make a steady had game using electrical components			To produce a three course meal that could be sourced and sold locally.
			<p>Research: To be able to identify who made the product, when it was made and what its purpose is.</p> <p>To be able to identify what the product is made from and how environmentally friendly the materials are</p> <p>To be able to evaluate product on design, appearance and use.</p> <p>Design/Plan: To be able to generate, develop, model and communicate their ideas</p>	<p>Research: To be able to identify who made the product, when it was made and what its purpose is.</p> <p>To be able to identify what the product is made from and how environmentally friendly the materials are</p> <p>To be able to evaluate product on design, appearance and use.</p> <p>Design/Plan: To be able to generate, develop, model and communicate their ideas</p>			<p>Research: To be able to identify who made the product, when it was made and what its purpose is.</p> <p>To be able to identify what the product is made from and how environmentally friendly the materials are. (food miles/carbon footprint?)</p> <p>To be able to evaluate product on design, appearance and use.</p> <p>To be able to identify the cost to make the product.</p>

			<p>through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>Make: To be able to select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities.</p> <p>Evaluate: To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>To understand how key events and individuals in design and technology have helped shape the world.</p> <p>Technical Knowledge: To be able to understand and use mechanical systems in their products (for example, sliders, cogs and cams).</p>	<p>through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>Make: To be able to select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities.</p> <p>Evaluate: To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>Technical Knowledge: To be able to understand and use electrical systems in their products (e.g. series circuits incorporating bulbs, buzzers and motors)</p>			<p>Design/Plan: To be able to generate, develop, model and communicate their ideas through discussion and annotated sketches.</p> <p>Make: To be able to select from and use a wider range of ingredients, according to their functional properties and aesthetic qualities.</p> <p>Evaluate: To be able to investigate and analyse a range of existing products. (Can be used in research lesson)</p> <p>To be able to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</p> <p>Cooking and Nutrition: To be able to understand and apply the principles of a healthy and varied diet.</p> <p>To be able to prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</p> <p>To be able to understand seasonality and know where and how a variety of ingredients are grown, reared, caught and</p>
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							processed. (can be used for research lessons)
			