## Progression of Knowledge, Skills and Understanding in Design and Technology



	Cooking and Nutrition	Structures and Mechanisms	Textiles				
	Cooking and Nutrition	Structures and Mechanisms	I GAUIGS				
Year Groups	Contexts	Knowledge and Skills					
Reception	Create faces using natural	Understand that media can be combined to create new effects.					
	materials, make fruit	<ul> <li>Construct with a purpose in mind, using a variety of resources.</li> </ul>					
	kebabs, clay diva lamps,	<ul> <li>Use simple tools and techniques competently and appropriately.</li> </ul>					
	potato latkes, Christmas	<ul> <li>Select appropriate resources and adapts work where necessary.</li> <li>Selects tool and techniques needed to shape, assemble and join materials they are using.</li> </ul>					
	crafts- cards/tags, salt						
	dough decorations, Junk	•Children safely use and explore a variety of materials, tools and technique	s, experimenting with design, form and				
	model animals, bird	function.					
	feeders, explore printing,	Create simple representations of objects.  Objects.	one of thinking a book of one of a company				
	junk model vehicles, clay	• Children use what they have learnt about media and materials in original v	ways, thinking about uses and purposes.				
	snails, weaving, painting	<ul><li>DESIGN AND DEVELOP</li><li>Talk about what they want to make.</li></ul>					
	and colour mixing and	MAKING					
	sandwiches	Use a variety of tools and materials to make models.					
		PRODUCT AND EVALUATION					
		Be excited about what they have made					
Year 1	Fruit salads and fruity	• Design purposeful, functional, appealing products based on design criteria	1;				
	drinks.	· Generate, develop, model and communicate their ideas through talking, d					
		where appropriate, information and communication technology.					
	Moving pictures	MAKE					
		• Select from and use a range of tools and equipment to perform practical to	asks [for example, cutting, shaping, joining				
	Stick and loom	and finishing];					
	weaving	• Select from and use a wide range of materials and components, including	construction materials, textiles, ingredients				
	weaving	according to their characteristics.					
Year 2	Jam tarts	EVALUATE	raduata againat daniga aritaria				
		<ul> <li>Explore and evaluate a range of existing products;</li> <li>Evaluate ideas and products</li> <li>Evaluate ideas and products</li> </ul>	roducts against design chiena.				
		<ul> <li>Build structures, exploring how they can be made stronger, stiffer and more</li> </ul>	ra stabla:				
	Winding toys	• Explore and use mechanisms [ for example, levers, sliders, wheels and ax					
		COOKING AND NUTRITION	icoj, in tiloli producto.				
	Windsocks	• use the basic principles of a healthy and varied diet to prepare dishes;					
	VVIIIUSUCKS	<ul> <li>understand where food comes from.</li> </ul>					
		- understand where food comes nom.					

Year Groups	Contexts	Knowledge and Skills		
Year 3	Salads and sandwiches	Use research and develop 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 ideas through discussion, annotated sketches, cross-sectional and		
		exploded diagrams, prototypes, pattern pieces and computer-aided design.		
		MAKE		
	Photoframes	• Select from and use a wider range of tools and equipment to perform practical tasks [for example, 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.  EVALUATE		
	Textile bookmarks	Investigate and analyse a range of existing products;		
		• Evaluate ideas and products against their own design criteria and consider the views of others to improve their work;		
		<ul> <li>Understand how key events and individuals have helped shape the world.</li> <li>TECHNICAL</li> </ul>		
		Cooking – design and make pastries and breads		
Year 4	Indian samosa	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.		
1001 4	malan samosa	• Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.		
		Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.		
		<ul> <li>Learn and apply a range of stitches including running, back, cross and sewing on a button.</li> </ul>		
	Electrical torches	Use levers and linkages.		
	Electrical torches	Understand and use mechanical systems in their products.		
		Apply their understanding of how to strengthen, stiffen and reinforce more complex structures;		
		<ul> <li>Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages];</li> </ul>		
		<ul> <li>Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs,</li> </ul>		
	3D textile Christmas	buzzers and motors];		
	decorations	COOKING AND NUTRITION		
	doorations	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.		
Year 5	Traditional British	Year 5 and 6 D&T is considerably more demanding as children build on the knowledge and skills gained earlier in the		
	dishes	school and apply them to increasingly complex projects. This includes:		
	Cam toys	Textiles: Children will mainly use the sewing machine for joining and plan projects in advance using paper patterns.		
	Tote beach bags	Projects may also involve a combination of fabrics e.g. a patterned pocket on the jute beach bag.		
Year 6	Bread	Mechanisms: Projects involve complex moving parts such as cams and electrical motors connected to pulleys		
	Fairground rides	(elements of control may also be included).		
	Cushions	Cooking: Dishes are more complicated involved multiple parts e.g baking breads to accompany meals.		

DESIGN TECHNOLOGY: VOCABULARY MAP												
	Design and Develop	Making		Product		Evaluation						
EYFS	Plan Draw Ideas Design	Make     Build     Combine	∐ Join ∐ Shape ∐ Tools	Complete     Product     Final		Change Like Dislike Next time	Better     Worse     Different     Instead					
		DESIGN TECHNOLOGY: VOCABULARY MAP										
	Design	Technical Knowledge & Making		Cooking a	Cooking and Nutrition		Evaluate					
KS <sub>1</sub>	Plan Prepare Design Materials Ideas Use Model Development Market Research Survey Template	Fast Slow Faster Slower Up Down Turn Wind up Design Draw Sketch	Fix Tissue Glue Newspaper Attach Cardboard Feature String Brick Wool Wood Clay Stone Scissors Cloth Glue Metal Tape Foam Cut Felt Stick Paper Decorate	Healthy     Unhealthy     Source     Fruit     Vegetables     Clean     Safe     Dirty	Unsafe Amount Ingredients Recipe Weight Nutrients Vegetarian Dietary require ments	Change Improve Prefer Useful Unsuccessful Future Progress modify	Alter     Adapt     Original     Finished article     Evaluate     Graphics					
KS2	Plan Organise Product Consumer Customer Initial ideas Criteria Diagrams Labels Annotate Brief Product Customer	Materials Mould Liquid Solid Form Shape Adhesive Lattice	Mass-produce     Hand-made     Packaging     Presentation     Machine made     Dimensions     Durable	Healthy     Unhealthy     Balanced     Vitamins     Disease     Nutrition     Healthy     eating     Hygiene     Diet	Cross contamination Grams Storage Presentation Taste Texture Flavour Disinfect Bacteria	Assess Edit Improve Alter Outcome Develop Test Analyse	Effective     Fit for purpose     Design criteria     Alternatives     Models     Quality     Function     Functionality					