Design and Technology Progression Map

	Cla	iss 1		ss 2	Cla	iss 3
uĝ	KS1	1 Design and Technology National Curriculum	KS	2 Design and Technology National Curriculum	KS	2 Design and Technology National Curriculum
Design	sho	ough a variety of creative and practical activities, pupils build be taught the knowledge, understanding and skills eded to engage in an iterative process of designing.	shc	ough a variety of creative and practical activities, pupils uld be taught the knowledge, understanding and skills ded to engage in an iterative process of designing.	sho	rough a variety of creative and practical activities, pupils build be taught the knowledge, understanding and skills eded to engage in an iterative process of designing.
	the	ey should work in a range of relevant contexts [for example, home and school, gardens and playgrounds, the local nmunity, industry and the wider environment].	the	y should work in a range of relevant contexts [for example, home, school, leisure, culture, enterprise, industry and the er environment].	the	ey should work in a range of relevant contexts [for example, home, school, leisure, culture, enterprise, industry and the ler environment].
	the	ldren design purposeful, functional, appealing products for mselves and other users based on design criteria.	des	ldren use research and develop design criteria to inform the ign of innovative, functional, appealing products that are fit purpose, aimed at particular individuals or groups.	des	ldren use research and develop design criteria to inform the sign of innovative, functional, appealing products that are fit purpose, aimed at particular individuals or groups.
	thro	They generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.	They generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and		They generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and	
	Children can:		exploded diagrams, prototypes, pattern pieces and computer- aided design.		exploded diagrams, prototypes, pattern pieces and computer- aided design.	
	а	use their knowledge of existing products and their own experience to help generate their ideas;	Chi	ldren can:	Chi	ldren can:
	b	design products that have a purpose and are aimed at an intended user;	а	identify the design features of their products that will appeal to intended customers;	а	use research to inform and develop detailed design criteria to inform the design of innovative, functional and
	С	explain how their products will look and work through talking and simple annotated drawings;	b	use their knowledge of a broad range of existing products to help generate their ideas;		appealing products that are fit for purpose and aimed at a target market;
	d	design models using simple computing software; e plan and test ideas using templates and mock-ups; f understand and follow simple design criteria; g work in a range of relevant contexts, for example imaginary, story- based, home, school and the wider environment.	С	design innovative and appealing products that have a clear purpose and are aimed at a specific user;	b	use their knowledge of a broad range of existing products to help generate their ideas;
			d	explain how particular parts of their products work; e use annotated sketches and cross-sectional drawings	С	design products that have a clear purpose and indicate the design features of their products that will appeal to the intended user;
				to develop and communicate their ideas;	d	explain how particular parts of their products work; e use
			f	when designing, explore different initial ideas before coming up with a final design;		annotated sketches, cross-sectional drawings and exploded diagrams (possibly including computer-aided
			g	when planning, start to explain their choice of materials and components including function and aesthetics;	f	design) to develop and communicate their ideas; generate a range of design ideas and clearly communicate
			h	test ideas out through using prototypes; i use computer-	-	final designs;
				aided design to develop and communicate their ideas (see note on p. 1);	g	consider the availability and costings of resources when planning out designs;
			j	develop and follow simple design criteria;	h	work in a broad range of relevant contexts, for example
			k	work in a broader range of relevant contexts, for example entertainment, the home, school, leisure, food industry and the wider environment.		conservation, the home, school, leisure, culture, enterprise, industry and the wider environment.

 KS1 Design and Technology National Curriculum Through a variety of creative and practical activities, pushould be taught the knowledge, understanding and skneeded to engage in an iterative process of making. Children select from and use a range of tools and equi perform practical tasks [for example, cutting, shaping, and finishing]. They select from and use a wide range of materials an components, including construction materials, textiles ingredients, according to their characteristics. Children can: Planning a with support, follow a simple plan or recipe; b begin to select from a range of hand tools and equi such as scissors, graters, zesters, safe knives, juice c select from a range of materials, textiles and com according to their characteristics; Practical skills a techniques d learn to use hand tools and kitchen equipment sar appropriately and learn to follow hygiene procedu e use a range of materials and components, includit textiles and food ingredients; 		KS2 Design and Technology National Curriculum	KS2			
 should be taught the knowledge, understanding and sk needed to engage in an iterative process of making. Children select from and use a range of tools and equi perform practical tasks [for example, cutting, shaping, and finishing]. They select from and use a wide range of materials an components, including construction materials, textiles ingredients, according to their characteristics. Children can: Planning a with support, follow a simple plan or recipe; b begin to select from a range of hand tools and equi such as scissors, graters, zesters, safe knives, juid c select from a range of materials, textiles and com according to their characteristics; Practical skills a techniques d learn to use hand tools and kitchen equipment sa appropriately and learn to follow hygiene procedu 		5 57		2 Design and Technology National Curriculum		
 perform practical tasks [for example, cutting, shaping, and finishing]. They select from and use a wide range of materials an components, including construction materials, textiles ingredients, according to their characteristics. Children can: Planning a with support, follow a simple plan or recipe; b begin to select from a range of hand tools and eq such as scissors, graters, zesters, safe knives, juic c select from a range of materials, textiles and com according to their characteristics; Practical skills a techniques d learn to use hand tools and kitchen equipment sa appropriately and learn to follow hygiene procedu 	dills s	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of making.	sho	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of making. Children select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.		
 components, including construction materials, textiles ingredients, according to their characteristics. Children can: Planning with support, follow a simple plan or recipe; begin to select from a range of hand tools and eq such as scissors, graters, zesters, safe knives, juid select from a range of materials, textiles and com according to their characteristics; Practical skills a techniques learn to use hand tools and kitchen equipment sa appropriately and learn to follow hygiene procedu use a range of materials and components, includi 	joining (Children select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] accurately.	equ			
 a with support, follow a simple plan or recipe; b begin to select from a range of hand tools and equivalence such as scissors, graters, zesters, safe knives, juic c select from a range of materials, textiles and comaccording to their characteristics; Practical skills is techniques d learn to use hand tools and kitchen equipment satisfies appropriately and learn to follow hygiene procedution e use a range of materials and components, includition 	and i	They select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and		They select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and construction guiding.		
 begin to select from a range of hand tools and equisuch as scissors, graters, zesters, safe knives, juic c select from a range of materials, textiles and compaccording to their characteristics; Practical skills a techniques d learn to use hand tools and kitchen equipment satisfy appropriately and learn to follow hygiene procedure e use a range of materials and components, includi 		aesthetic qualities.		aesthetic qualities.		
 such as scissors, graters, zesters, safe knives, juid select from a range of materials, textiles and com according to their characteristics; Practical skills techniques learn to use hand tools and kitchen equipment sa appropriately and learn to follow hygiene procedu use a range of materials and components, includi 	(Children can: Plan	Chil	dren can: Planning		
 according to their characteristics; Practical skills techniques d learn to use hand tools and kitchen equipment sa appropriately and learn to follow hygiene procedu e use a range of materials and components, includi 	uipment,	 with growing confidence, carefully select from a range of tools and equipment, explaining their choices; 	а	independently plan by suggesting what to do next; b with growing confidence, select from a wide range of		
 according to their characteristics; Practical skills techniques d learn to use hand tools and kitchen equipment sa appropriately and learn to follow hygiene procedu e use a range of materials and components, includi 	ponents	select from a range of materials and components	tool	s and equipment, explaining their choices;		
 d learn to use hand tools and kitchen equipment sa appropriately and learn to follow hygiene procedu e use a range of materials and components, includi 		according to their functional properties and aesthetic qualities;	С	select from a range of materials and components according to their functional properties and aesthetic		
appropriately and learn to follow hygiene proceduuse a range of materials and components, includi	felv and	place the main stages of making in a systematic order;		qualities;		
	res;	Practical skills and techniques learn to use a range of tools and equipment safely,	d	create step-by-step plans as a guide to making; Practical skills and techniques		
	ng	appropriately and accurately and learn to follow hygiene procedures;	е	learn to use a range of tools and equipment safely and appropriately and learn to follow hygiene procedures;		
f with help, measure and mark out;		use a wider range of materials and components, including				
g cut, shape and score materials with some accurate assemble, join and combine materials, compo		construction materials and kits, textiles and mechanical and electrical components;	Т	independently take exact measurements and mark out, to within 1 millimetre;		
ingredients;	1	with growing independence, measure and mark out to the	g	use a full range of materials and components, including construction materials and kits, textiles, and		
 demonstrate how to cut, shape and join fabric to r simple product; 		nearest cm and millimetre;		mechanical components;		
j manipulate fabrics in simple ways to create the de		cut, shape and score materials with some degree of accuracy;	h	cut a range of materials with precision and accuracy; i		
effect;		assemble, join and combine material and components with	1	shape and score materials with precision and		
k use a basic running stich;		some degree of accuracy;		accuracy; j assemble, join and combine materials		
cut, peel and grate ingredients, including measuri	ng and i	demonstrate how to measure, cut, shape and join fabric	L.	and components with accuracy;		
weighing ingredients using measuring cups;		with some accuracy to make a simple product; join textiles with an appropriate sewing technique; k begin	k	demonstrate how to measure, make a seam allowance, tape, pin, cut, shape and join fabric with precision to make		
 begin to use simple finishing techniques to impro appearance of their product, such as adding simp decorations. 		to select and use different and appropriate finishing techniques to improve the appearance of a product such as hemming, tie-dye, fabric paints and digital graphics.	I	a more complex product; join textiles using a greater variety of stitches, such as backstitch, whip stitch, blanket stitch;		
		3,, .,	m	refine the finish using techniques to improve the appearance of their product, such as sanding or a more precise scissor cut after roughly cutting out a shape.		

te	KS1 Design and Technology National Curriculum	KS2 Design and Technology National Curriculum	KS2 Design and Technology National Curriculum	
Evaluate	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making.	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making.	
	Children explore and evaluate a range of existing products.	Children investigate and analyse a range of existing products.	Children investigate and analyse a range of existing products.	
		They evaluate their ideas and products against their own	They evaluate their ideas and products against their own	
	L'hlidron can'	design criteria and consider the views of others to improve their work.	sign criteria and consider the views of others to improve eir work.	
		They understand how key events and individuals in design and technology have helped shape the world.	They understand how key events and individuals in design and technology have helped shape the world.	
	explain positives and things to improve for existing	Children can:	Children can:	
	and deaters	a explore and evaluate existing products, explaining the	 complete detailed competitor analysis of other products on the market; 	
	c explore what materials products are made from; d	purpose of the product and whether it is designed well to meet the intended purpose;	critically evaluate the quality of design, manufacture and	
	talk about their design ideas and what they are	b explore what materials/ingredients products are made	fitness for purpose of products as they design and make;	
	making; e as they work, start to identify strengths and possible changes they might make to refine their existing design;	from and suggest reasons for this;	c evaluate their ideas and products against the original	
		 consider their design criteria as they make progress and are willing to alter their plans, sometimes considering the 	design criteria, making changes as needed.	
	f evaluate their products and ideas against their simple	views of others if this helps them to improve their product;		
	design criteria;	d evaluate their product against their original design criteria;		
	g start to understand that the iterative process sometimes involves repeating different stages of the process.	 evaluate the key events, including technological developments, and designs of individuals in design and technology that have helped shape the world. 		

ion	KS1 Design and Technology National Curriculum	KS2 Design and Technology National Curriculum	KS2 Design and Technology National Curriculum	
Cooking and Nutrition	Children use the basic principles of a healthy and varied diet to prepare dishes.	Children understand and apply the principles of a healthy and varied diet.	Children understand and apply the principles of a healthy and varied diet.	
	They understand where food comes from. Children can:	They prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.	They prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.	
	 a explain where in the world different foods originate from; b understand that all food comes from plants or animals; c understand that food has to be farmed, grown elsewhere (e.g. home) or caught; d name and sort foods into the five groups in the Eatwell Guide; e understand that everyone should eat at least five portions of fruit and vegetables every day and start to explain why; 	They understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	They understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	
		Children can:	Children can:	
		a start to know when, where and how food is grown (such as herbs, tomatoes and strawberries) in the UK, Europe and the wider world;	 know, explain and give examples of food that is grown (such as pears, wheat and potatoes), reared (such as poultry and cattle) and caught (such as fish) in the UK, 	
		 understand how to prepare and cook a variety of predominantly savoury dishes safely and hygienically; 	Europe and the wider world; b understand about seasonality, how this may affect the food availability and plan	
		 with support, use a heat source to cook ingredients showing awareness of the need to control the temperature of the hob and/or oven; 	 recipes according to seasonality; understand that food is processed into ingredients that can be eaten or used in cooking; 	
	f use what they know about the Eatwell Guide to design and prepare dishes.	d use a range of techniques such as mashing, whisking, crushing, grating, cutting, kneading and baking;	 demonstrate how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source; 	
		e explain that a healthy diet is made up of a variety and balance of different food and drink, as represented in the Eatwell Guide and be able to apply these principles when	 demonstrate how to use a range of cooking techniques, such as griddling, grilling, frying and boiling; 	
		 planning and cooking dishes; f understand that to be active and healthy, nutritious food and drink are needed to provide energy for the body; 	f explain that foods contain different substances, such as protein, that are needed for health and be able to apply these principles when planning and preparing dishes;	
		 g prepare ingredients using appropriate cooking utensils; h measure and weigh ingredients to the nearest gram and millilitre; i start to independently follow a recipe; j start to understand seasonality. 	g adapt and refine recipes by adding or substituting one or more ingredients to change the appearance, taste, texture and aroma;	
			 alter methods, cooking times and/or temperatures; i measure accurately and calculate ratios of ingredients to scale up or down from a recipe; 	
			j independently follow a recipe.	