EYFS	KS1	LKS2	UKS2	
EYFS run on a 2 year cycle	Construction (Houses linked to the Great fire of London)	Mechanics/electrics (Linked to Science electricity topic- making a simple game)	Construction (Air Raid Shelters - Linked to th topic: The Effects of the War on Liverpool)	
	Cooking and nutrition (Pizzas linked to healthy eating topic)	Textiles (Making a bag using recycled materials)	Mechanics/electrics (Viking Longships- Linked to History topic)	
	Mechanics/electrics (Building Mangonels linked to Castles topic)	Construction (Designing and building a café linked to geography Snowdonia topic)	Mechanics/electrics (Linked to Science- Electrics - Making Fans)	
	Textiles (Sock puppets linked to Science topic- animals)	Mechanics/electrics (Catapults linked to Roman topic)	Textiles (Linked to History- Fashion in 20 ⁴ Century)	
	Mechanics/electrics (Vehicles/moving parts)	Cooking and nutrition (Making tropical smoothies – linked to Rainforest topic)	Cooking and nutrition (Cooking Greek foo linked to Ancient Greece topic)	

Skills progression - Design and Technology

Pupils are taught the knowledge, understanding and skills needed to engage in the process of design and making. Below are the skills and end points for each phase.

EYFS

Children at the expected level of development will:

- Draw and paint using a range of materials, tools and techniques, experimenting with colour, design, texture, form and function;
- Share their creations, explaining the process they have used;
- Make use of props and materials when role playing characters in narratives and stories.

	Year1/2	Year 3/4	Year 5/6	
Design	I can think of ideas and with help can put them into practice. I know what a design is. I can use pictures and words to describe what I want to do. I know what a design is and its purpose. I can use pictures and words to describe what I want to do (materials, techniques, features, mechanics and tools). These objectives will be covered in all DT units	I can start to research and evaluate existing products I understand that products are designed for a purpose (e.g. a problem, an audience, an event. I can research and evaluate existing products to inform me in my own planning. I understand that products are designed for a purpose (e.g. a problem, an audience, an event). These objectives will be covered in all DT units	I can research and evaluate existing products giving reasons for the decisions of the designers (materials, design, tools, techniques). I can use the ideas from current designers to help me with my own. I can adapt the ideas from current designers to help me with my own. These objectives will be covered in all DT units	
Evaluating products	I know what a product is. I can say what a product is for. I can describe a product (who is it for, what is made from, how is it made, how it works). I know the features of familiar products I can give reasons for some features (colour, choice, material used and joining technique). These objectives will be covered in all DT units	I can start to research and evaluate existing products I understand that products are designed for a purpose (e.g. a problem, an audience, an event. I can research and evaluate existing products to inform me in my own planning. These objectives will be covered in all DT units	I can research and evaluate existing products giving reasons for the decisions of the designers (materials, design, tools, techniques). I can use the ideas from current designers to help me with my own. These objectives will be covered in all DT units	
Make				

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	I can explain fully how moving objects work.	I can use simple circuits to either illuminate or create motion.	behave. I can use precise electrical connections.	
	lever or a hinge (to make a movement).	both useful and attractive.	control speed) to alter the way my electrical products	
	turning mechanism (e.g. wheels, winding) or a	My product has a good finish so that a user will find it	series or parallel, variable resistance to dim lights or	
	I can make a product that moves using a	product.	I can use my science skills (resistance, batteries in	
	mechanisms, hinges and levers work.	I can combine a number of components well in my	My product is improved after testing.	
Mechanics/Electrics	I can explain how wheels, axels, turning	movement.	switches or by ICT equipment.	
NA-shaning /Flashing	I have explored how moving objects work.	Autumn 2 - B I can choose and make a mechanism to create	Autumn 2 - A I have chosen components that can be controlled by	
		product bearing in mind the purpose and audience	product.	
	Autumn 1 – A	I can use art skills to enhance the visual appeal of my	I can use computer programming when creating a	
	columns and triangles).	aiming for a high quality finish.	my technique. My methods of working are precise so that products have a high quality finish.	
	structure stronger (folding, rolling and joining,	My methods of working are increasingly precise		
	I have found out how to make materials for my	permanent and temporary fastenings.		
	possible.	I can join materials to make products using both	pieces that are not accurate and improve	
	I am careful to make my work look as neat as	I can make cuts and holes accurately and precisely.	I can make cuts accurately and reject	
	hacksaw).	and techniques.	folds, joins) using a prototype.	
	I can cut materials safely (scissors, junior	I can select and use appropriate materials, joins, folds	my products. Some joins are flexible. My methods of working are precise so that products have a high quality finish. I can test my construction methods (materials, cuts,	
	and increasing accuracy.	product		
	I can measure and mark out materials with care	I can use art skills to enhance the visual appeal of my		
	I know what a join is and can use one.	I can make holes accurately (drill, punch).		
	structure.	I can make cuts accurately (scissors and saws).	My joins are strong and stable, giving extra strength to	
	<i>I know what materials and tools I can use for my</i>	accurately.	not accurate.	
	I can cut using scissors. I can follow instructions to make my product.	accurately (cm). I can use scoring and folding to shape materials	I can shape products accurately and precisely. I can make cuts accurately and reject pieces that are	
	I can measure and mark out materials	I measure and mark out materials carefully and	I can measure using cm, mm.	
	I know what a join is.	I can use an appropriate join.	best suited to my design.	
Construction	I know what materials I can use for my structure	I can select and use appropriate materials.	I can select from a variety of materials	

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	I can make a simple product from toxtiles	I can measure mark out and out fabric	I can consider the cost and visual appeal of the	
	I can make a simple product from textiles.	I can measure, mark out and cut fabric.	I can consider the cost and visual appeal of the	
	I can cut fabric using a template.	I can use sharp scissors accurately to cut textiles.	material.	
	I can join fabrics using glue and running	I can choose the best methods of joining fabrics in	I can mark out using my own patterns and templates.	
	stitch.	order to create a product which is fit for purpose.	I can join textiles to make a durable and desirable	
	I can make sure my work is neat and tidy.	I can consider the advantages and disadvantages of	product.	
	I can weave.	material for a product.	I can combine art skills to add colour and texture to my	
	I know that textiles have different properties.	I can create and use a template or pattern to create	work.	
	I can select the appropriate textile so that it does	an accurate product.	I can experiment with a range of materials until I find	
	the job I want it to.	I can use stitching to help create a product that is	the right mix of affordability, appeal and	
	I can alter a textile to make it stronger.	sturdy and fit for purpose.	appropriateness for the job.	
	I can measure, mark out and cut fabric. I can combine materials to add strength or visual		My products have an awareness of commercial	
	I can join fabrics using running stitch	appeal.	appeal.	
	Autumn 2 - B	Summer 2 - A	I can mark out using my own patterns and templates adapting them if needed.	
			I can combine art skills to add colour and texture to	
			my work.	
			I can join textiles using art skills to make a desirable	
			product.	
			Autumn 1 - B	
Cooking and Nutrition	I can use a knife safely.	I can select ingredients based on a recipe.	I can explain why I need certain food types and select	
	I can mix and combine ingredients.	I can work in a safe, hygienic way.	ingredients based on this.	
	I am aware of hygiene for cooking.	I can measure out my ingredients.	I can work safely and hygienically.	
	I can explain how some things are	I understand what is healthy and unhealthy.	I know about local produce and seasonality.	
	dangerous to eat raw.	I can combine two cooking processes to make a	I understand food choices (veganism, vegetarianism)	
	I can explain what a recipe is.	product.	and food intolerances.	
	I can explain how heat changes food.	I know where food comes from.	I can follow several processes in a recipe.	
	I can make a simple snack.	I can prepare a healthy lunch.	I can use my knowledge of the food groups to plan and	
	I can use a variety of utensils safely.	I can select ingredients for my product with reasons.	prepare a healthy dinner.	
	I can follow a simple recipe.	I can work in a safe, hygienic way.	I know where different crops can be found around the	
	I can combine ingredients in various ways.	I can use mathematical skills to measure out my	world.	
	I can apply hygiene rules to cooking.	ingredients.	I can understand carbon footprint.	
	I can use explain how some foods are made and	I can follow steps in a recipe using different methods	I know different cultures have different diets and how	
	some are natural.	(combining, melting, boiling and baking).	these have influenced our diet.	
	I can explain what the food groups are.	I can explain why we need a healthy diet.	I can work safely and hygienically.	
	I know where some foods come from.	I can use my knowledge of the food groups to plan	I can follow several processes in a recipe.	
	I can describe different cooking methods.	and prepare a healthy lunch.	I can adapt my recipe based on my audience and	
	I can prepare a healthy snack/breakfast.	Summer 2 - B	taste.	
	reall prepare a nearing shacky breakjust		140101	

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	Spring 1 - A				l can use my knowled and prepare a baland Summer 1 - B	lge of the food groups to plan ced dinner.
Evaluating	I can talk about my own work (features, design, opinion) I describe how my product works I talk about my own and others' work (features, design, opinion). I can explain why I chose certain materials, techniques and tools. I describe how my product works These objectives will be covered in all DT units		 I talk about my own and others' work (features, design, opinion). I can explain why I chose certain materials, techniques and tools. I can say what I would do to improve my product. I can identify what is working well and what can be improved (this is during the make as well as at the end). These objectives will be covered in all DT units 		I can reflect on my designs and develop them bearing in mind the way they will be used (during the process) I can reflect on my designs and adapt them based on testing and a prototype These objectives will be covered in all DT units	
Knowledge of designers	I know what a designer does. I give my opinion on a product. I know the names and the products of some British designers. I can say what I like and dislike about the product and the designer These objectives will be covered in all DT units		I know some designers from history. I can talk about some of the tools, techniques used by the designer. I know some international designers. I can explain why a product is appealing These objectives will be covered in all DT units		I can compare and contrast the work of different designers. I can give reasons for the decisions made by the designer. I know how key events and individuals have influenced the world (in terms of products). I start to think of new products and innovate my own ideas These objectives will be covered in all DT units	
Vocabulary	Cut Design Join Made Make Measure Neat Tidy Tools Work	Axel Hinge Joining Lever Rolling Scissors Stitch Strong Turning Wheels	Column Designer Evaluate Folding Healthy Mixing Product Purpose Structure Utensil	Accuracy Bake Boil Folding Hacksaw Hygienic Measure Mechanics Properties Scoring	Components Features Ingredients Plaiting Research Strength Structural Technique Visual Weaving	Affordable Appropriate Commercial Connections Desirable Durable Embroidery Experiment Influence Template