Year Group	Reception	Year 1	Year 2	Year 3
Торіс	Dinosaurs Traditional Tales	London	London	Disappearing Rainforests
Skills:	-	I	•	•
Design: Developing, planning and communicating ideas Explain what they are making a which materials they are using. Select materials from a limited range that will meet a simple design criteria e.g. shiny. Select and name the tools need to work the materials e.g. scisso for paper. Explore ideas by rearranging materials. Describe simple models or drawings of ideas and intention Discuss their work as it progress		Textiles: Felt Puppets: London Zoo animal Begin to draw on their own experience to help generate ideas and research conducted on criteria. Begin to understand the development of existing products: What they are for, how they work, materials used. Start to suggest ideas and explain what they are going to do. Understand how to identify a target group for what they intend to design and make based on a design criteria. Begin to develop their ideas through talk and drawings. Make templates and mock-ups of their ideas in card and paper or using ICT.	Textiles: Felt Puppets: London Zoo animalStart to generate ideas by drawing on their own and other people's experiences. Begin to develop their design ideas through discussion, observation, drawing and modelling. Identify a purpose for what they intend to design and make. Understand how to identify a target group for what they intend to design and make based on a design criteria. Develop their ideas through talk and drawings and label parts. Make templates and mock-ups of their ideas in card and paper or using ICT.	Structure: PhotoframeWith growing confidence generate ideas for an item, considering its purpose and the user/s.Start to order the main stages of making a product.Identify a purpose and establish criteria for a successful product.Understand how well products have been designed, made, what materials have been used and the construction technique.Learn about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking
Make: Working with tools, equipment, materials and components to make quality products	Begin to create their design using basic techniques. Start to build structures, joining components together. Look at simple hinges, wheels and axles. Use technical vocabulary when appropriate. Begin to use scissors to cut straight and curved edges and hole punches to punch holes. Explore using/ holding basic tools such as a saw or hammer. Use adhesives to join material.	Begin to make their design using appropriate techniques. Begin to build structures, exploring how they can be made stronger, stiffer and more stable. Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. With help measure, mark out, cut and shape a range of materials. Explore using tools e.g. scissors and a hole punch safely. (Needles) Begin to assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape.	Begin to select tools and materials; use correct vocabulary to name and describe them. (Needles) Build structures, exploring how they can be made stronger, stiffer and more stable. With help measure, cut and score with some accuracy. Learn to use hand tools safely and appropriately. Start to assemble, join and combine materials in order to make a product. (sewing) Start to choose and use appropriate finishing techniques based on own ideas.	Select a wider range of tools and techniques for making their product i.e. construction materials and kits, textiles, food ingredients, mechanical components and electrical components. Explain their choice of tools and equipment in relation to the skills and techniques they will be using. Start to understand that mechanical and electrical systems have an input, process and output. Start to understand that mechanical systems such as levers and linkages or pneumatic systems create movement. Measure, mark out, cut, score and assemble components with more accuracy.

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	Year 4			
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	Disappearing Rainforests			
	Structure: Photoframe			
	Start to generate ideas, considering the			
	purposes for which they are designing-			
	link with Mathematics and Science.			
	Confidently make labelled drawings			
	from different views showing specific			
	features.			
	Develop a clear idea of what has to be			
	done, planning how to use materials,			
е	equipment and processes, and			
e als	suggesting alternative methods of			
on	making, if the first attempts fail.			
	Identify the strengths and areas for			
	development in their ideas and			
5	products.			
ing	When planning, consider the views of			
9	others, including intended users, to			
	improve their work.			
	Learn about inventors, designers,			
e of	engineers, chefs and manufacturers			
g	who have developed ground-breaking			
0	products.			
	When planning, explain their choice of			
	materials and components according to			
	function and aesthetic.			
	Select a wider range of tools and			
t	techniques for making their product			
	safely.			
cal	Know how to measure, mark out, cut			
	and shape a range of materials, using			
	appropriate tools, equipment and			
un el	techniques.			
ind	Start to join and combine materials and			
Л	components accurately in temporary			
ıl +	and permanent ways.			
it,	Know how mechanical systems such as			
Л	cams or pulleys or gears create movement.			
	Understand how to reinforce and			
or nt.	strengthen a 3D framework.			
	Begin to use finishing techniques to			
	strengthen and improve the			
	strengthen and improve the			

Evaluate: Evaluating processes and products	Say what they like and do not like about items they have made and attempt to say why. Begin to talk about their designs as they develop and identify good and bad points. Start to talk about changes made during the making process. Discuss how closely their finished products meet their design criteria.	Begin to use simple finishing techniques to improve the appearance of their product. Start to evaluate their product by discussing how well it works in relation to the purpose (design criteria). When looking at existing products explain what they like and dislike about products and why. Begin to evaluate their products as they are developed, identifying strengths and possible changes they might make.	Evaluate their work against their design criteria. Look at a range of existing products, explain what they like and dislike about products and why. Start to evaluate their products as they are developed, identifying strengths and possible changes they might make. With confidence talk about their ideas, saying what they like and dislike about them.	Start to work safely and accurately wi a range of simple tools. Start to think about their ideas as the make progress and be willing to change things if this helps them to improve their work. Start to evaluate their product against original design criteria e.g. how well in meets its intended purpose. Begin to disassemble and evaluate familiar products and consider the views of others to improve them. Evaluate the key designs of individual in design and technology has helped shape the world.
Food and Nutrition	Pancakes Begin to develop a food vocabulary using taste, smell, texture and feel. Explore familiar food products e.g. eggs, milk, flour. Stir, spread, knead and shape a range of food and ingredients. Begin to work safely and hygienically. Start to think about the need for a variety of foods in a diet.	Begin to understand that all food comes from plants or animals. Explore the understanding that food has to be farmed, grown elsewhere (e.g. home) or caught. Start to understand how to name and sort foods into the five groups in 'The Eat well plate' Begin to understand that everyone should eat at least five portions of fruit and vegetables every day. Know how to prepare simple dishes safely and hygienically, without using a heat source. Know how to use techniques such as cutting, peeling and grating.	Understand that all food comes from plants or animals. Know that food has to be farmed, grown elsewhere (e.g. home) or caught. Understand how to name and sort foods into the five groups in 'The Eat well plate' Know that everyone should eat at least five portions of fruit and vegetables every day. Demonstrate how to prepare simple dishes safely and hygienically, without using a heat source. Demonstrate how to use techniques such as cutting, peeling and grating.	Start to know that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world. Understand how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, wher appropriate, the use of a heat source. Begin to understand how to use a rang of techniques such as peeling, choppin slicing, grating, mixing, spreading, kneading and baking. Start to understand that a healthy diet made up from a variety and balance of different food and drink, as depicted in 'The Eat well plate' Begin to know that to be active and healthy, food and drink are needed to provide energy for the body.

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with ney inge	appearance of their product using a range of equipment including ICT.
nst I it als d	Evaluate their products carrying out appropriate tests. Start to evaluate their work both during and at the end of the assignment. Be able to disassemble and evaluate familiar products and consider the views of others to improve them. Evaluate the key designs of individuals in design and technology has helped shape the world.
ch ka hes ere e. nge ping, et is of in	Understand that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world. Understand how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source. Know how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking. Know that a healthy diet is made up from a variety and balance of different food and drink, as depicted in 'The Eat well plate' Know that to be active and healthy, food and drink are needed to provide energy for the body.

Knowledge	Reception	Year 1	Year 2	Year 3	Year 4
DT1: Develop the creative, technical & practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world (ie: know how	Making pancakes for Shrove Tuesday - measure, whisk, mix, pour. Explore how the thickness of the batter results in a different texture of pancake.	Textiles:Felt Puppets: London Zoo animalResearch and investigate howdifferent puppet animals look andwork Design and annotate drawingof own zoo animalExplore pattern / template usePractise stitches to refine skill.	Textiles: Felt Puppets: London Zoo animal Research and investigate how different puppet animals look and work Design and annotate drawing of own zoo animal Explore pattern / template use Practise stitches to refine skill.	Structure: Photoframe Use research to develop product, exploring types of joints, stands and photo retention. Design and annotate sketches. Prototype ideas Construct using materials such as; plastics, wood, cardboards and paper -	Structure: Photoframe Use research to develop product, exploring types of joints, stands and photo retention. Design and annotate sketches. Prototype ideas Construct using materials such as; plastics, wood, cardboards and paper -
something works). DT2: Build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users. (ie: make something which works) DT3: Critique, evaluate and	Research boat designs - what materials do they use and why? (photos/videos). Construct a boat for "the Gingerbread Man" using junk modelling materials. Test and evaluate each other's boats. Making gingerbread men biscuits - measure, mix, knead, roll, cut. ,	Cut pattern from felt Sew and fix features using needle and thread Evaluate	Cut pattern from felt Sew and fix features using needle and thread Evaluate	children to investigate materials best fit for purpose Safe use of tools such as; junior hacksaws,scissors, measuring devices e.g. rulers templates. hole punches, paper clips etc. Evaluate	children to investigate materials best fit for purpose Safe use of tools such as; junior hacksaws,scissors, measuring devices e.g. rulers templates. hole punches, paper clips etc. Evaluate
test their ideas and products and the work of others. DT4: Understand and apply the principles of nutrition and learn how to cook					

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