



	Progression in Design Technology
Teaching	Placing the DT being studied in the context of similar past learning in the subject
Sequence in	Brief review of learning covered in previous lesson/s
Design	Teacher delivers a design brief, posing a problem to be solved in a context the children understand
Technology	Children research existing products and possible construction materials/ingredients/tools.
	Children create their own design, in response to the brief and their research.
	Children practise the skills
	Children make their product.
	Children critically evaluate their work

Strand	EYFS	Year 1	Year 3	Year 4	Year 5	Year 6	
Research	<ul> <li>Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</li> <li>Children use what they have learnt about media and materials in original ways, thinking about uses and purposes.</li> <li>Children represent their own ideas, thoughts and feelings through design and technology</li> </ul>	<ul> <li>Explore a range of products, discussing are made and how</li> <li>Discuss how these could help them widesign</li> </ul>	g how they they work. e products	design and world. • Investigat products, d	e and analyse iscussing thei d intended us	ave helped s a range of r features, c	shape the existing





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Design	Represent and communicate their own ideas and thoughts through design Begin to use the language of designing and making, e.g. join, build and shape. Learning about planning and adapting initial ideas to make them better.	<ul> <li>Select pictures to help develop ideas and explain what they are making and which materials they are using</li> <li>Discuss their work as it progresses</li> <li>say whether their products are for themselves or other users</li> <li>describe what their products are for</li> </ul>	<ul> <li>Use pictures and words to convey what they want to make</li> <li>Use drawings to record ideas as they are developed</li> <li>Add notes to drawings to help explanations</li> <li>say how their products will work</li> <li>say how they will make their products suitable for their intended users</li> <li>use knowledge of existing products to help come up with ideas</li> </ul>	Draw/ sketch product to help understand how they are made • Think ahead about the order of their work • describe the purpose of their products	<ul> <li>draw/sketch products to help understand how and why they are made</li> <li>develop more than one design or adaptation of an initial design</li> <li>indicate the design features of their products that will appeal to intended users</li> <li>explain how particular parts of their products work</li> </ul>	<ul> <li>make well-chosen decisions on how to prepare food products taking into account the properties of ingredients and sensory characteristics</li> <li>select dishes for a particular purpose based on their knowledge of seasonality and typical South American ingredients.</li> <li>sketch and model alternative ideas and record ideas using annotated diagrams with increasing detail</li> <li>generate innovative ideas, drawing on research</li> <li>carry out research, using surveys, interviews, questionnaires and web-based resources</li> </ul>	Explain what they are making and which materials they will need Make design decisions, taking account of constraints such as time, resources and cost Sketch/draw their initial design Indicate the design features of their products that will appeal to intended users identify the needs, wants, preferences and values of particular individuals and groups Describe the purpose of their products Explain how particular parts of their products work





Strand EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
MakeTo learn to construct wi purpose in r Selects tools techniques needed to si assemble ar materials.Safely use to and material	<ul> <li>nind card to be cut using a template</li> <li>Join the card to make a 3D container using glue and tape</li> <li>Cut materials safely using tools provided.</li> <li>Demonstrate a range</li> </ul>	<ul> <li>the nearest centimetre.</li> <li>Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen).</li> <li>Use wood to practise</li> </ul>	<ul> <li>Construction <ul> <li>Use the coiling technique with clay to build a pot</li> <li>Join coils accurately using tools selected.</li> <li>Understand how a wide base of a 3D object makes it more stable</li> <li>Know that pencils create dots and knives create lines</li> </ul> </li> </ul>			





Strand	EYFS	• Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Make	To learn to	Join their			<ul> <li>join textiles</li> </ul>		<ul> <li>Join fabrics by pinning and tacking</li> </ul>
	construct with	fabrics with			neatly using		pieces together
Textiles	a purpose in	glue or by			basic stitch		<ul> <li>Stitch using a range of stitches</li> </ul>
TEALIES	mindSelects	using running			techniques		including blanket stitch
	tools and	stitch, staples			(running, back		<ul> <li>Create objects that employ a seam</li> </ul>
	techniques	or over-			and		allowance.
	needed to	sewing			oversewing)		<ul> <li>Join textiles with a combination of</li> </ul>
	shape,	Decorate their			<ul> <li>Decorate using</li> </ul>		stitching techniques (such as blanket
	assemble and	puppet with			cross stitch		stitch for seams and running stitch to
	join materials.	buttons,			<ul> <li>explore</li> </ul>		attach decoration).
		beads,			fastening and		Use the qualities of materials to
	Safely use	sequins,			recreate some		create suitable visual and tactile
	tools and	braids and			e.g. sew on		effects in the decoration of textiles
	materials	ribbons			buttons and		(such as a soft decoration for comfort
					create loops		on a cushion).

Strand	EYFS	Year 1		Year 2	Year 3		Year 4		Year 5	Year 6
Make			•	Create a mechanis m using a lever Use the lever to move an object/pict ure		•	build on their scientific knowledge of the transference of forces in year 3 to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears). draw on their knowledge of pulley systems to solve a problem to demonstrate how the Egyptians made it easier to lift rocks using pulleys build a wooden frame and strengthen this with diagonal struts measure, mark and cut the wood to 1cm	•	<ul> <li>Build frameworks using a range of material to support mechanisms</li> <li>Know how mechanical systems such as cams or pulleys or gears create movement</li> <li>Convert rotary motion to linear using cams</li> </ul>	
						•	Attach and construct the pulley system.			





Strand	EYFS	Year 1	Year 2	Year 3	• Year 4	Year 5	Year 6
Make Electronics					<ul> <li>Understand and create an electrical circuit</li> <li>Create series and parallel circuits</li> <li>Know how simple electric circuits and components can be used to create functional products</li> <li>How to program a computer to control products</li> </ul>		<ul> <li>Draw on their knowledge of year 6 computing and science work on electrical circuits to design and create circuits using electronic kits that employ a number of components (such as resistor, LED's, transistors and chips)</li> <li>Know how more complex electric circuits and components can be used to create functional products</li> <li>Know how to program a computer to monitor changes in the environment and control their</li> </ul>
							product





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Make Food			<ul> <li>Understanding the basic principles of a healthy diet</li> <li>that all food comes from plants or animals</li> <li>that food has to be farmed, grown elsewhere (e.g. home) or caught</li> <li>how to name and sort foods into the five groups in The eatwell plate</li> <li>that everyone should eat at least five portions of fruit and vegetables every day</li> <li>Developing a food vocabulary using taste, smell, touch and texture</li> <li>Chop, spreading and cutting a range of ingredients</li> <li>Demonstrate how to work safely and hygienically</li> <li>Assemble or cook ingredients.</li> </ul>	<ul> <li>Build on their food vocabulary acquired in key stage 1 by increasing their sensory vocabulary and knowledge around how foods feel, smell and taste</li> <li>Make healthy eating choices from an understanding of a balanced diet when designing their product. Know that to be active and healthy, food and drink are needed to provide energy for the body</li> <li>Say how and why they need to work safely and hygienically by providing examples they have used when preparing the food using utensils</li> <li>use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading.</li> <li>Understand seasonality and which products can be grown locally and which can't. Know that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle)</li> </ul>		<ul> <li>Use scales to measure accurately</li> <li>Cut and shape ingredients using appropriate tools and equipment</li> <li>Decorate dishes based on knowledge of simple ingredients used to decorate dishes</li> <li>Understand the importance of correct storage and handling of ingredients (using knowledge of micro- organisms).</li> <li>Measure accurately and calculate ratios of ingredients to scale up or down from a recipe.</li> <li>Create and refine recipes, including ingredients, methods</li> <li>how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, mashing and dicing.</li> <li>that recipes can be adapted to change the appearance,</li> </ul>	





	<ul> <li>and caught (such as fish)</li> <li>in the UK, Europe and the wider world</li> <li>Measure ingredients to the nearest gram accurately</li> <li>Assemble or cook ingredients</li> <li>Join and combine ingredients according to their aesthetic and functional properties</li> </ul>	<ul> <li>taste, texture and aroma</li> <li>that different food and drink contain different substances <ul> <li>nutrients, water</li> <li>and fibre – that are</li> <li>needed for health</li> </ul> </li> </ul>
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Evaluate	Begin to talk about changes made during the making process, e.g. making a decision to use a different joining method.	<ul> <li>Evaluate Existing Products:</li> <li>what products are used for</li> <li>Say what they like and do not like about the product they have made and why</li> <li>Talk about their design and identify good and bad points</li> </ul>	<ul> <li>Evaluate Existing Products:</li> <li>who products are for</li> <li>what products are for</li> <li>how products work</li> <li>what they like and dislike about products</li> <li>Evaluate how well it does its job (shows movement)</li> <li>Discuss how closely their finished product meets their design criteria</li> </ul>	<ul> <li>Evaluate existing products</li> <li>Discuss how well the product meets the design criteria and how well it meets the needs of the user</li> <li>Evaluate their product and consider and explain how it could be improved.</li> </ul>	<ul> <li>Evaluate existing products</li> <li>evaluate against own design criteria</li> <li>consider the strengths and weaknesses of their work in relation to its function</li> <li>Understand how key events and individuals in design and technology have helped shape the world</li> </ul>	<ul> <li>Evaluate existing Products</li> <li>how much products cost to make</li> <li>Consider the viewpoints of other when evaluating their work</li> <li>Evaluate the process of design and making the product</li> </ul>	<ul> <li>Critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make</li> <li>Justify decisions about materials and methods of construction.</li> <li>Consider the viewpoints of other when evaluating their work</li> <li>Evaluate the process of design and making the product</li> </ul>		
Subject Specific Vocabulary	2. do a drawir Designer: 1. a 2. KS2 – also f Technology: u Product: an o Brief: the initi	Design: 1. plan to do something with a specific purpose in mind       product         2. do a drawing of something before making it       pesigner: 1. a person who creates a plan for something they want to make         2. KS2 – also focus on 'designer' as a job title/career, e.g. 'fashion designer'       fashion designer'         Technology: using what we know about Science to help us make useful things       product: an outcome piece with a function/that does something - not necessarily a thing which can be sold         Brief: the initial instructions that tell us what we need to do in our project       User: the person who we are designing our product for, whose needs/wants must be taken into account							





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Topic Specific Vocabulary	materials tools construct make cut join strong ingredients healthy cook taste	brief product evaluate problem- solving textiles needle thread pin running stitch cut join construct structure stable	label technology ingredients healthy chopping board hygiene chef balanced nutritious appealing cut join moving picture mechanism lever slider pivot strengthen	intended user annotated sketch component hygiene utensils slice dice recipe street food texture oven temperature salad coil	design criteria pattern piece running stitch cross stitch applique embroidery textile designer battery circuit switch bulb electrical engineer mechanical system pulley driver follower load transport mechanical engineer	computer-aided design hygiene cross contamination local produce seasonality bake fry spices frame structure triangulation strengthen reinforce greenhouse agricultural engineer	battery circuit switch monitor control program electrical engineer pattern pieces back stitch tension seam allowance turn out fastener fashion designer ethical product corporate social responsibility