

Design and Technology Progression Map



Please refer to the individual learning blocks for key vocabulary.

Year Group	Design	Make/Technical Knowledge	Evaluate
EYFS (Nursery)	I can develop my own ideas and decide which materials to use to express them	Construction <ul style="list-style-type: none"> I can combine different material I can select appropriate materials I can select and use appropriate tools for a purpose and the tool names I can join materials using different techniques e.g. split pins, tape, glue 	I can notice what other children and adults do, mirroring what is observed, adding variations and then doing it spontaneously
	I know how to express myself	Textile <ul style="list-style-type: none"> I am beginning to weave materials e.g. ribbon in wood 	I can watch how someone else makes a creation and copy their ideas
	I know how to choose materials for their use	<ul style="list-style-type: none"> I can explore the use of different materials I can use tools for a purpose 	
	I know I can discuss my work and change it as it progresses	Cooking and Nutrition <ul style="list-style-type: none"> I know that some foods are healthy and unhealthy I know why some food and drink is healthy and unhealthy I know I have to wash my hands before handling food and why I can use some techniques such as mixing, spreading and cutting I know about the changes that happen when heating or cooling ingredients I can talk about the differences between materials and changes they notice I can make healthy choices 	I can say what I like about my creation
	I know how to use materials, thinking about its purpose		I can describe how I made my creation
	I know how to make a simple plan before making		I can talk about how things work e.g. push/pull
EYFS (F2)	I can work together to develop and realise creative ideas.	Construction <ul style="list-style-type: none"> I can use a range of materials to construct with. I can use different techniques for joining materials, such as adhesive tape and different sorts of glue. I can use a variety of tools e.g. scissors, spades, pencils and use them with care and precision 	I can discuss problems and how they might be solved as they arise.
	I can think about and discuss what I want to make.	Textile <ul style="list-style-type: none"> I can weave with a range of materials 	I can reflect on how I have achieved my aims.
	I can look at products to generate inspiration and have conversation about art and artists	Cooking and Nutrition <ul style="list-style-type: none"> I can identify healthy and unhealthy foods. I can talk about having a balance of these. I can talk about likes and dislikes. I can use a range of tools with care and precision 	

Year 1	I can design a simple product with support	Construction <ul style="list-style-type: none"> I can use split pins to make my product move I can include levers in my product I can select materials to make my product stronger 	I can test my final product
	I can draw a simple plan of my design	Textile <ul style="list-style-type: none"> I can produce an Easter card using criteria given to me I can use a plastic needle and thread it with support I can use running stitch I can stitch in pre-cut holes I can weave with paper and material 	I can describe what went well and what could be better
	I can make choices on my design e.g. colour,	Cooking and Nutrition (Without a heat source) <ul style="list-style-type: none"> I understand that I need to wash vegetables and fruit before eating I can chop prepared fruit (with support) using an appropriate tool I can slice prepared fruit (with support) using an appropriate tool I can combine a selection of ingredients I understand that some food is grown and some food is processed 	I can identify what I could do differently next time
			I can explore and evaluate different pivots and levers as a class
Year 2	I can design features of a product based on a simple brief e.g. colours of a purse	Construction <ul style="list-style-type: none"> I can use wheels and axels in my design I can join different materials with appropriate resources I can select materials to stiffen my product I can use information communication technology to generate ideas for my work. 	I can look at existing products to help me make my design working in small groups
	I can draw a plan of my design	Textile <ul style="list-style-type: none"> I can produce a Binca purse following criteria given to me I can independently thread a plastic needle I can sew on Binca (cm hole) I can use running stitch with increasing accuracy I can use a Velcro fastening I can tie a knot 	I can test that my final product
	I can select from a small selection of materials	Cooking and Nutrition (Without a heat source) <ul style="list-style-type: none"> I can chop vegetables by selecting the appropriate tool I can slice by selecting the appropriate tool I can peel by selecting the appropriate tool I can grate using a grater I can mix ingredients together I can select the tools I need I understand how vegetables are grown 	I can evaluate its effectiveness
	I can personalise my design		I can identify what worked well and what I would change next time

Year 3	I can design a product which meets a simple brief with guidance	Construction <ul style="list-style-type: none"> I can use an appropriate adhesive to join two pieces of wood I can build a simple circuit containing a battery and a bulb I can safely use tools and materials to construct a stable 3D structure 	I can identify the features in already existing products to help me make my design
	I can sketch my design and list the materials I think I need.	Textile <ul style="list-style-type: none"> I can produce a hand puppet using criteria developed by the class I can use a metal needle I can join two edges of material together I can use running stitch I can use blanket stitch I can effectively finish my line of stitches 	I can test my final product against the needs of the brief
	I can change my design based on the testing of materials		I can evaluate and explain its effectiveness
	I can choose materials and resources which will improve the effectiveness of my product.	Cooking and Nutrition (With heat source) <ul style="list-style-type: none"> I can use my knowledge of healthy and unhealthy food and food groups to design an Eatwell plate I can identify ingredients needed to create my plate I can boil water to cook pasta or eggs (with support) I can chop, slice, peel and grate food I can select the appropriate tool to chop, slice, peel, grate and spread I understand how to stay safe in the kitchen 	I can identify what worked well and what I would change next time
	I can design an appropriate pattern piece.		
Year 4	I can design a product which meets a simple brief.	Construction <ul style="list-style-type: none"> I can use a saw to cut wood I can select the appropriate sandpaper to use on wood I can sand wood using sandpaper I can use a hammer to insert nails to join two pieces of wood I can use a mechanism to make my product move 	I can suggest how already existing products guided me to my design
	I can draw my design and label the key components using a cross sectional diagram.		I can test my final product against the needs of my brief
	I can select from materials which my testing has shown would be most effective	Textile <ul style="list-style-type: none"> I can produce a stuffed toy meeting a simple brief I can independently thread a metal needle I can join all sides of a product together I can use stuffing to create a product I can use running stitch I can use backstitch 	I can evaluate the effectiveness of my product in different situations considering the viewpoint of others
		Cooking and Nutrition (With a heat source) <ul style="list-style-type: none"> I can weigh ingredients using a digital and mechanical scale I can combine different ingredients by selecting the appropriate tool I can knead dough I can bake bread I can describe the impact of using yeast I understand how the ingredients I use are grown and processed I understand how to stay safe in the kitchen 	I can identify what worked well and how the product could be improved to suit different purposes
		Construction	

Year 5	<p>I can carry out research on different types of bridges created by different architects/civil engineers</p> <p>I can design a product to meet the needs of a brief</p> <p>I can select from a range of resources giving reasons for my choice e.g. best material to fit the brief</p> <p>I can draw effective and precise diagrams of my design (to scale) for example an exploded diagram.</p> <p>I can redraft based on feedback and testing</p>	<ul style="list-style-type: none"> I can use an exploded diagram to create a computer aided design (CAD) I can select from a wide range of tools to join materials together I can understand and use different mechanical systems such as pulleys and levers, cams and gears I can use a variety of methods to strengthen and stiffen my product <p>Textile</p> <ul style="list-style-type: none"> I can sew using embroidery hoop/tapestry ring I can select appropriate resources e.g. wool, thread, cotton I can sew on hessian I can use a range of stitches (log, running, back, cross and satin) I can use a metal embroidery needle I can fill and outline a pattern I can create an image with stitches <p>Cooking and Nutrition (With a heat source)</p> <ul style="list-style-type: none"> I understand that food and cooking traditions are different around the world I can use my previous knowledge of baking to create a multi ingredient dish I can select appropriate tools I can identify the origin of the ingredients I use including how they are grown and processed I understand how to stay safe in the kitchen 	<p>I can test and evaluate a range of materials to help me select the best one for my product</p> <p>I can deconstruct existing products to discover how they are designed and made</p> <p>I can use my knowledge of the above to aid my design and build</p> <p>I can test my own and others products and say how it does or doesn't meet the brief</p> <p>I can evaluate the effectiveness of my design</p> <p>I am beginning to understand how different individuals in design technology have shaped the world using different mechanisms in their bridges</p>
Year 6	<p>I can respond to a brief by creating my own design/product to meet the needs of the user.</p> <p>I can research using a range of sources e.g. testing, product comparison, internet to inform my design</p> <p>I can draw designs to scale using either a sketch, cross sectional or exploded diagram.</p> <p>I can use exploded and cross sectional diagrams to show my design</p>	<p>Construction</p> <ul style="list-style-type: none"> I can use wood, paper based materials (e.g. card), wire and combine them to make a product I can include an electrical series circuit in my construction including bulbs, buzzers, switches and motors I can use my computing skills to make a product move independently <p>Textile</p> <ul style="list-style-type: none"> I can produce a Tote bag following my own design. I can sew with increasing neatness I can use a range of stitches, choosing the most effective for my design (Running, back, cross, blanket) I can join together layers of material I can use pins to increase the accuracy of my joining I can add handles, fastenings and applique 	<p>I can test and evaluate the effectiveness of resources which meet the needs of a brief</p> <p>I can test existing products to determine what makes them successful and use this information to improve my design</p> <p>I can evaluate a prototype and plan changes to make my product more effective</p> <p>I can incorporate feedback from others to adapt my design</p>

	<p>I can redraft my design based on testing of materials and prototypes</p> <p>I can make adaptations to my design throughout the design and making process to improve its effectiveness</p>	<p>Enrichment (Open to all Y6 children)</p> <p>Cooking competition:</p> <ul style="list-style-type: none"> • I can make a 2 course meal selecting ingredients based on their nutritional content and its seasonality • I can refine my recipe to improve the taste/cost • I can use a range of tools to chop, slice, cut, peel, mix, grate, spread and knead • I understand how to stay safe in the kitchen <p>Enterprise:</p> <ul style="list-style-type: none"> • I can work in a small group or team to research, purchase and sell a product for enterprise. • I can apply my computing skills to monitor my product 	<p>I can evaluate my finished product and test its effectiveness against the brief</p> <p>I can draw conclusions in what I could do to make my product more effective</p> <p>I can explain how my final product could be adapted for changes in the brief e.g. user, environment, purpose</p>
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