## **Progression Framework – Design Technology**





## **Curriculum Themes**

We follow a four-year curriculum cycle. Each topic theme falls under a termly category

- Autumn Me and My World
- Spring The Wider World
- Summer Action and Adventure

The curriculum theme titles are listed in the table below. Teachers use the subject framework to inform the learning intent for their individual classes in the form of medium-term plans. These frameworks ensure that there is a clear progression in skills and knowledge for each subject area.

Autumn - Me and My World	Spring - <b>The Wider World</b> Summer - <b>Action and Ad</b>						
Year 1							
All About Me	Come Fly with Me	Pirates					
	Year 2						
Help is at Hand	Going Wild	Time Travel					
Year 3							
Unity in the Community	Global Warning	To Infinity and Beyond					
Year 4							
Law and Order	Law and Order Under the Sea						

The Design Technology curriculum is broken down into the following key areas:

- Design
- Make
- Evaluate
- Technical Knowledge

When deciding on their termly learning intent, teachers should ensure that there are opportunities for pupils to learn and progress in all areas and this should be clearly referenced in medium term plans.

D.1.1 - Select appropriate resources D.1.2 - Use gestures, talking and arrangements of materials and components to show design D.1.4 - Use pictures and plan what to do and describe hythe teacher and myself (loin, build, shape, longer, shorter, heavier etc.)  D.1.4 - Use pictures and missing products  D.2.4 - Use pictures and missing products  D.2.4 - Use pictures and missing roducts  D.2.5 - Design a product  for myself following design criteria D.2.6 - Research similar existing products  D.2.6 - Use honowledge of existing products to produce ideas  D.2.6 - Use honowledge of existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Use house and cost produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing products to produce ideas  D.2.6 - Research similar existing
D.1.1 - Iselect appropriate resources D.2.2 - Explain what 1 want to do D.2.3 - Explain what 1 vant to do and describe for fracterials and components to show design edging and arrangements will work components to show design and plan was to do and describe by the teacher and myself D.1.4 - Use language of designing and making (join, build, shape), longer, shorter, heavier etc.) D.2.5 - Research similar existing products  A.2.6 - Research similar existing products  B.2.7 - Low service words and plan what 2 do and describe by the teacher and myself D.3.3 - Explain by the service word to plan, begin to use ICT Design products for myself following design criteria D.3.5 - Choose best tools and materials, and explain choices  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to product ideas and plan what to do and materials, and explain to use ICT Design products  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge
Besources D.1.2 - Use gestures, taking and arrangements of materials and using product is for, and how it will be suitable for the user of designing and making (join, build, shape, longer, shorter, heavier etc.)  D.2.3 - Explain what to do and describe how I may do it to by the teacher and myself policy for myself following design criteria D.3.4 - Use policy for myself following design criteria D.3.5 - Choose best tools and materials, and explain choices D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D.3.6 - Use knowledge of existing products to produce ideas  D
aided designs

Stage 1	Stage 2	Stage 2	Stage 4	Store F	Stage 6	Stage 7
Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7
Make Make						
M.1.1 - Construct with a	M.2.1 - Explain what I'm	M.3.1 - Explain what I am	M.4.1 - Select suitable	M.5.1 - Select suitable	M.6.1 - Use selected	M.7.1 - Use selected tools
purpose, using a variety of	making and why	making and why it fits the	tools/equipment, explain	tools and equipment,	tools/equipment with	and equipment precisely
resources	M.2.2 - Consider what I	purpose Make suggestions	choices; begin to use them	explain choices in relation	good level of precision	M.7.2 - Produce suitable
M.1.2 - Use simple tools	need to do next	as to what I need to do	accurately	to required techniques and	M.6.2 - Produce suitable	lists of tools, equipment,
and techniques	M.2.3 - Select	next.	M.4.2 - Select appropriate	use accurately	lists of tools,	materials needed,
Build / construct with a	tools/equipment to cut,	M.3.2 - Join	materials, fit for purpose.	M.5.2 - Select appropriate	equipment/materials	considering constraints
wide range of objects	shape, join, finish and	materials/components	M.4.3 - Work through plan	materials, fit for purpose;	needed	M.7.3 - Select appropriate
M.1.3 - Select tools &	explain choices	together in different ways	in order	explain choices	M.6.3 - Select appropriate	materials, fit for purpose;
techniques to shape,	M.2.4 - Measure, mark	M.3.3 - Measure, mark	M.4.4 - Consider how good	M.5.3 - Work through plan	materials, fit for purpose;	explain choices,
assemble and join	out, cut and shape, with	out, cut and shape	product will be	in order.	explain choices,	considering functionality
M.1.4 - Replicate	support	materials and	M.4.5 - Begin to measure,	M.5.4 - Realise if product	considering functionality	and aesthetics
structures with materials /	M.2.5 - Choose suitable	components, with support.	mark out, cut and shape	is going to be good quality	M.6.4 - Create and follow	M.7.4 - Create, follow, and
components	materials and explain	M.3.4 - Describe which	materials/components	M.5.5 - Measure, mark	detailed step by-step plan	adapt detailed step-by-
M.1.5 - Discuss how to	choices	tools I'm using and why	with some accuracy	out, cut and shape	M.6.5 - Explain how	step plans
make an activity safe and	M.2.6 - Try to use finishing	M.3.5 - Choose suitable	M.4.6 - Begin to assemble,	materials/components	product will appeal to an	M.7.5 - Explain how
hygienic	techniques to make	materials and explain	join and combine materials	with some accuracy	audience	product will appeal to
	product look good	choices depending on	and components with	M.5.6 - Assemble, join and	M.6.6 - Mainly accurately	audience; make changes to
	M.2.7 - Work in a safe and	characteristics.	some accuracy	combine materials and	measure, mark out, cut	improve quality
	hygienic manner	M.3.6 - Use finishing	M.4.7 - Begin to apply a	components with some	and shape	M.7.6 - Accurately
		techniques to make	range of finishing	accuracy	materials/components	measure, mark out, cut
		product look good  M.3.7 - Work safely and	techniques with some	M.5.7 - Apply a range of finishing techniques with	M.6.7 - Mainly accurately assemble, join and	and shape materials/components
		hygienically	accuracy	• •	combine	M.7.8 - Accurately
		Hygierically		some accuracy	materials/components	assemble, join and
					M.6.8 - Mainly accurately	combine
					apply a range of finishing	materials/components
					techniques	M.7.9 - Accurately apply a
					M.6.9 - Use techniques	range of finishing
					that involve a small	techniques
					number of steps	M.7.10 - Use techniques
					M.6.10 - Begin to be	that involve a number of
					resourceful with practical	steps
					problems	M.7.11 - Be resourceful
					ļ	with practical problems
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Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6	Stage 7	
	Evaluate						
E.1.1 - Adapt work if necessary E.1.2 - Dismantle, examine, talk about existing objects/structures E.1.3 - Consider and manage some risks E.1.4 - Practise some appropriate safety measures independently E.1.5 - Talk about how things work E.1.6 - Look at similarities and differences between existing objects / materials / tools E.1.7 - Show an interest in technological toys E.1.8 - Describe textures	E.2.1 - Talk about my work, linking it to what I was asked to do E.2.2 - Talk about existing products considering: use, materials, how they work, audience, where they might be used E.2.3 - Talk about existing products, and say what is and isn't good E.2.4 - Talk about things that other people have made E.2.5 - Begin to talk about what could make product better	E.3.1 - Describe what went well, thinking about design criteria E.3.2 - Talk about existing products considering: use, materials, how they work, audience, where they might be used; express personal opinion E.3.3 - Evaluate how good existing products are E.3.4 - Talk about what I would do differently if I were to do it again and why	E.4.1 - Look at design criteria while designing and making E.4.2 - Use design criteria to evaluate finished product Say what I would change to make design better E.4.3 - Begin to evaluate existing products, considering: how well they have been made, materials, whether they work, how they have been made, fit for purpose E.4.4 - Begin to understand by whom, when and where products were designed E.4.5 - Learn about some inventors/designers/engineers/chefs/manufacturers of ground-breaking products	E.5.1 - Refer to design criteria while designing and making E.5.2 - Use criteria to evaluate product E.5.3 - Begin to explain how I could improve original design E.5.4 - Evaluate existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose E.5.6 - Discuss by whom, when and where products were designed E.5.7 - Research whether products can be recycled or reused E.5.8 - Know about some inventors/designers/ engineers/chefs/manufacturers of ground-breaking products	E.6.1 - Evaluate quality of design while designing and making E.6.2 - Evaluate ideas and finished product against specification, considering purpose and appearance. E.6.3 - Test and evaluate final product E.6.4 - Evaluate and discuss existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose E.6.7 - Begin to evaluate how much products cost to make and how innovative they are E.6.8 - Research how sustainable materials are E.6.9 - Talk about some key inventors/designers/engineers/ chefs/manufacturers of ground-breaking products	E.7.1 - Evaluate quality of design while designing and making; is it fit for purpose? E.7.2 - Keep checking design is best it can be. E.7.3 - Evaluate ideas and finished product against specification, stating if it's fit for purpose E.7.4 - Test and evaluate final product; explain what would improve it and the effect different resources may have had E.7.5 - Do thorough evaluations of existing products considering: how well they've been made, materials, whether they work, how they've been made, fit for purpose E.7.6 - Evaluate how much products cost to make and how innovative they are E.7.8 - Research and discuss how sustainable materials are E.7.9 - Consider the impact of products beyond their intended purpose E.7.10 - Discuss some key inventors/designers/ engineers/ chefs/manufacturers of ground-breaking products	

Stage 1 Stage	2 Stage 3	Stage 4	Stage 5	Stage 6	Stage 7
Technical Knowledge					
TK.2.1 - Begin to and join material some support TK.2.2 - Describe differences in ma Suggest ways to material/product TK.2.3 - Begin to or slides measure, cut and textiles to make with some support TK.2.4 - Choose stextiles	Describe some different characteristics of materials atterials make It stronger ouse levers It djoin a product, ort  Describe some different characteristics of materials in different ways  TK.3.2 - Join materials in different ways  TK.3.3 - Use joining, rolling or folding to make it stronger  TK.3.4 - Use own ideas to try to make product stronger  TK.3.5 - Use levers or	TK.4.1 - Use appropriate materials TK.4.2 - Work accurately to make cuts and holes TK.4.3 - Join materials TK.4.4 - Begin to make strong structures select appropriate tools / techniques TK.4.5 - Alter product after checking, to make it better TK.4.6 - Begin to try new/different ideas TK.4.7 - Use simple lever and linkages to create movement TK.4.8 - Join different textiles in different ways TK.4.9 - Choose textiles considering appearance and functionality TK.4.10 - Begin to understand that a simple	TK.5.1 - Measure carefully to avoid mistakes TK.5.2 - Attempt to make product strong TK.5.3 - Continue working on product even if original didn't work TK.5.4 - Make a strong, stiff structure TK.5.5 - Select most appropriate tools / techniques TK.5.6 - Explain alterations to product after checking it TK.5.7 - Grow in confidence about trying new / different ideas. TK.5.8 - Use levers and linkages to create movement TK.5.9 - Use pneumatics to create movement TK.5.10 - Think about user when choosing textiles TK.5.11 - Think about how to make product strong TK.5.12 - Begin to devise a template TK.5.13 - Explain how to join things in a different way TK.5.14 - Understand that a simple fabric shape can be used to make a 3D textiles project	TK.6.1 - Select materials carefully, considering intended use of product and appearance TK.6.2 - Explain how product meets design criteria TK.6.3 - Measure accurately enough to ensure precision TK.6.4 - Ensure product is strong and fit for purpose TK.6.5 - Begin to reinforce and strengthen a 3D frame TK.6.6 - Refine product after testing TK.6.7 - Grow in confidence about trying new / different ideas TK.6.8 - Begin to use cams, pulleys or gears to create movement TK.6.9 - Use own template TK.6.10 - Think about how to make product strong and look better TK.6.11 - Think of a range of ways to join things TK.6.12 - Begin to understand that a single 3D textiles project can be made from a combination of fabric shapes.	TK.7.1 - Select materials carefully, considering intended use of the product, the aesthetics and functionality.  TK.7.2 - Explain how product meets design criteria  TK.7.3 - Reinforce and strengthen a 3D frame  TK.7.4 - Refine product after testing, considering aesthetics, functionality and purpose  TK.7.5 - Incorporate hydraulics and pneumatics  TK.7.6 - Be confident to try new / different ideas  TK.7.7 - Use cams, pulleys and gears to create movement  TK.7.8 - Think about user's wants/needs and aesthetics when choosing textiles  TK.7.9 - Make product attractive and strong  TK.7.10 - Make a prototype  TK.7.11 - Use a range of joining techniques  TK.7.12 - Think about how product might be sold  TK.7.13 - Think carefully about what would improve product  TK.7.14 - Understand that a single 3D textiles project can be made from a combination of fabric shapes.



