DT progression of Knowledge and Skills							
	EYFS	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6
Structures	Think and talk	• Learn the	Generate and	• Design a	• I know how to	• Learn how to	Know how to
	about what they	importance of	communicate	structure e.g. a	build frame	create a frame	design a scenario
	are going to make	clear design	ideas using	castle or one	structures	structure with a	featuring a variety
	before they do it.	criteria.	sketching and	linked to the	designed to	focus on	of different
	 Plan what they 	• Include	modelling.	learning project,	support weight.	triangulation.	structures,
	are going to make	individual	• Learn about	with key features	 Design a stable 	Design a stable	considering how
	by drawing it first.	preferences and	different types of	to appeal to a	structure, linked to	structure that is	the structures will
	Use a tick list to	requirements in a	structures found in	specific person or	the learning	able to support	be used, and what
	say what	design.	the natural world	purpose.	project or scheme	weight.	are effective and
	resources they are		and in everyday	Draw and label a	unit, that is	Build a wooden	ineffective designs
	going to need to	 Make stable 	objects.	design for the	aesthetically	structure	based on prior
	make their	structures from		structure using 2D	pleasing, and	independently.	knowledge and
	product or	card, tape and	Make a structure	shapes, labelling: -	select materials to	• Select	experience.
	outcome.	glue.	according to given	the 3D shapes that	create a desired	appropriate tools	
		• Follow	design criteria.	will create the	effect.	and equipment for	 Use a range of
	Choose the	instructions to cut	Create joints and	features - the	Create a range of	particular tasks.	materials to
	resources needed	and assemble the	structures from	materials needed	different shaped	Use the correct	reinforce and add
	for the activity.	supporting	paper or card and	and its colours.	frame structures.	techniques to saw	decoration to
	Handle simple	structure	tape or glue.		Make a variety	safely.	structures.
	hand tools and			Construct a	of free-standing	 Identify where a 	
	equipment			range of 3D	frame structures	structure needs	
	effectively			geometric shapes	of different shapes	reinforcement and	
	• Select			using nets.	and sizes.	use card corners	
	appropriate			Create special	Reinforce	for support.	
	materials			features for	corners to		
				individual designs.	strengthen a		
				0	structure		
Mechanisms	• I know how to	Explain how to	I know to create	• I know how to	Understand how	• I know how to	Understand how
	represent own	adapt mechanisms	class design	develop design	to draw a net to	name each	linkages change
	ideas, thoughts	Know how	criteria for a	criteria from a	create a structure	mechanism, input	the direction of a
	and feelings	design a	moving	design brief.	from.	and output	force.
	through design	mechanism	I understand	Learn that	• I know how to	accurately	• I know how to
	and technology.	Create clearly	how to select a	different types of	choose shapes	Make things	make things move
		labelled drawings	suitable linkage	drawings are used	that increase or	move at the same	at the same time.
			system to produce	in design to	decrease speed	time.	

	Use a split pin to create a mechanism that opens and closes (a simple hinge).	which illustrate movement. •Follow a design to create moving models that use levers and sliders. • Adapt simple mechanisms	the desired motions. Select appropriate materials based on their properties. Experiment with linkages adjusting the widths, lengths and thicknesses of card used. Cut and assemble components neatly.	explain ideas clearly. • Manipulate materials to create different effects by cutting, creasing, folding, weaving. • Select materials due to their functional and aesthetic characteristics	 Personalise a design. Measure, mark, cut and assemble with increasing accuracy. Make a model based on a chosen design. 	 Make mechanisms and/or structures using sliders, pivots and folds to produce movement. Use layers and spacers to hide the workings of mechanical parts for an aesthetically pleasing result. 	 Assemble components accurately to make a stable frame Measure, mark and cut components accurately using a ruler and scissors. Use a craft knife safely to cut shapes accurately
Textiles	Know that different materials and fabrics are used for different purposes e.g. wool for a jumper, rubber for wellies. Weave string in and out of a threading card or weaving basket.	I understand how to use a template to create a design Cut fabric neatly with scissors. Use joining methods to decorate a product. Sequence the steps for construction.	I know how to design a textile product. Select and cut fabrics for sewing. Decorate a product using fabric glue or running stitch.	I understand how to design and make a template from an existing product and apply individual design criteria. Select and cut fabrics with ease using fabric scissors. Sew cross stitch to join fabric. Decorate fabric using appliqué. Complete design ideas with stuffing and sewing the edges.	I know how to write design criteria for a product, articulating decisions made. Design a personalised product Select a stitch style to join fabric, working neatly to sew small stitches. Incorporate a fastening to a design. Measure, mark and cut fabric using a paper template.	I know how to design a product considering the main component shapes required and creating an appropriate. Consider proportions of individual components. Use appliqué or embroidery to attach pieces of fabric decoration. Measure, mark and cut fabric accurately and independently.	I know how to design a product in accordance with specification linked to a set of design criteria and a theme. Annotate designs and explain any changes made. Mark and cut fabric accurately, in accordance with a design. Sew a strong stitch, making small, neat stitches and following the edge.

Food	Use a knife safely to chop a range of soft food. Roll out dough and use cutters with accuracy. Use jugs, scoops and spoons in cooking.	 Learn where and how fruits and vegetables grow. Chop fruit and vegetables safely with a knife. Identify if a food is a fruit or a vegetable. 	 Know how to design a healthy product based on a food combination which works well together. Slice food safely using the appropriate grip. Construct a healthy product that meets a design brief. 	 Understand how to create a healthy and nutritious recipe for a savoury meal using seasonal ingredients, considering the taste, texture, smell and appearance of the dish. Know how to prepare themselves and a work space to cook safely in. Learn the basic rules to avoid food contamination. Follow the instructions in a recipe. 	Know how to design a product within a given budget, drawing upon previous taste tastings. Cook safely, following basic hygiene rules. Follow a baking recipe. Adapt a recipe	Write an amended method for a recipe to incorporate the relevant changes to ingredients. Understand appealing packaging to reflect a recipe Cut and prepare vegetables safely. Use equipment safely, including knives, hot pans and hobs. Know how to avoid food cross contamination. Follow a step by step method carefully to make a recipe.	 Write a recipe, explaining the key steps, method and ingredients. Include facts and drawings from research undertaken. Follow a recipe using the correct quantities of each ingredient. Adapt a recipe based on research. Work to a given timescale. Work safely and hygienically with increasing independence.
Topic		Shade and shelter	Remarkable recipes	Cook well, eat well	Healthy food	Moving Mechanisms	Make do and mend
		Taxi Chop slice and	Beach hut	Making it move Green House	Functional fancy fabrics	Eat the seasons	Food for life
		mash	Cut stich and join push ad pull		Tomb builders	Architecture	Engineer