Skills Progression

	DT							
Skills	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Skills Mechanisms	EYFS Making a moving journey (adapted from Y1 making a moving storybook) Design Design Design a journey with one moving part Create a background picture Make Make Make a slider as part of a picture considering tools and materials required Evaluate To talk about design and outcome	Wheels and axels (adapted and combined with constructing a windmill) Design Generate ideas Make Construct vehicle (windmill) using paper/card and tape	Fairground wheel Design Select a suitable linkage system to produce the desired motions Design a wheel selecting appropriate materials based on their properties Make Select materials based on their characteristics Follow a design brief Evaluate Evaluate Evaluate different designs Test and adapt a design Making a moving monster Design Create a class	Year 3 Make a slingshot car (moved from Y4) Design Design a shape that reduces air resistance Draw a net to create a structure from Choose shapes that increase or decrease speed as a result of air resistance Personalise a design Make Measure, mark, cut and assemble with increasing accuracy Make a model based on a chosen design Evaluate Evaluate the speed of a final product based on the effect of	Year 4	Pop up book Design Design a pop up book which uses a mixture of structures and mechanisms Name each mechanism, input and output accurately Storyboard ideas for a book Make Follow a design brief to make a pop up book, neatly and with focus on accuracy 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	Year 6	
			design for a moving monster Design a moving monster for a specific audience in accordance with design criteria	shape on speed and the accuracy of workmanship on performance		Evaluate (N/A on Kapow)		

			84.1				
			Make			Evaluate own	
			Make linkages			designs against	
			using card for			design criteria	
			levers and split			 Do chosen 	
			pins for pivots			structures and	
			Experimetn with			mechanisms	
			linkages adjusting			enhance story?	
			the widths, lengths				
			and thicknesses of				
			card used				
			Cut and assemble				
			components neatly				
			Evaluate				
			 Evaluate own 				
			designs against				
			design criteria				
			 Use peer feedback 				
			to modify a final				
			design				
	Make a castle	Constructing a windmill	Baby Bear's Chair	Constructing a castle	Pavilions		Playgrounds
Structures	Design	Design					
	 To design a 	Learn the			Design		Design
	castle	importance of a clear	Design	Design	Design a stable		Design a
		design criteria	Generate and	Design a castle	structure that is		playground
	Make	BA - I	communicate	with key features	aesthetically		featureing a variety
	To explore and	Make	ideas using sketchbooks and	to appeal to a	pleasing and select materials		of different
	investigate the	Make stable	modelling	specific	to create a		structures, giving careful
	tools in the junk	structures from card,	Make	person/purposeDraw and lable a	desired effect		careful consideration to
	modelling areaTo explore and	tape and glueLearn how to turn 2D	Make a structure	castle design	Build frame		how the strucures
	investigate	nets into 3D	according to	using 2D shapes,	structures		will be used,
	ways to attach	structures	design criteria	labelling, the 3D	designed to		considering
	To work	Follow instructions to	•	shapes that will	support weight		effective an
	collaboratively	cut, assemble and	structure from	create the	Make		ineffective designs
	to create a	support a structure	paper/card and	features –	Create a range		Make
	castle	Make functional	tape	materials needed	of different		Build a range of
	incorporating	turbines/axles which	 Build a strong and 	and colours	shaped frame		play apparatus
	different ways	are assembled into a	stiff structure by	 Design and 	structures		structures drawing
	of attaching	main supporting	folding paper	decorate a castle	 Make a variety 		upon new and prior
	ŭ	structure	3. .	tower on	of free standing		knowledge of
	Evaluate			software	frame structures		structures

	To talk about design and	Evaluate • Evaluate according	Evaluate Test the strength	Make Construct a	of different shapes and	Measure, mark and cut wood to
	design and outcome To discuss best ways found to attach	 Evaluate according to the design criteria, testing whether the structure is strong and stable and altering it if it isn't Suggest points for improvements 	lest the strength of own structures Identify the weakest part of a structure Evaluate the strength, stiffness and stability of own structure	Construct a range of 3D geometric shapes using nets Create special features for individual designs Make facades from a range of recycled materials Evaluate Evaluate Evaluate own work and the work of others based on the aesthetic of the fiished product and in comparison to the original design Suggest points for modifications of the individual designs	snapes and sizes Select appropriate materials to build a strong structure for the cladding Reinforce corners to strengthen a structure Create a design in accordance with a plan Learn to create different textural effects with materials Evaluate Evaluate Evaluate structures made by the class Describe what characteristics of a design and construction made it the most effective Consider effective and ineffective designs	and cut wood to create a range of structures • Use a range of materials to reinforce and add decoration to structures Evaluate • Improve a design plan based on peer evaluation • Test and adapt a design to improve it as it is developed • Identify what makes a successful structure
Textiles		Puppets		Rivers		Waistcoats
		Use a template to create a design for a puppet Make		(Cross stich and applique linked to river topic)		Design a waistcoat in accordance to specification linked to a set of design

		Cut fabric neatly with scissors Use joining methods to decorate a puppet Sequence steps for construction Evaluate Reflect on a finished product explaining likes and dislikes					criteria to fit a specific theme Annotate designs Make Use a template when pinning panels onto fabric Mark and cut fabric accurately in accordance with a design Sew a strong running stitch, making small neat stitches and following the edge Tye strong knots Decorate a waistcoat, attach obects using trhead and add a secure fastening Learn different decorative stitches Sew accurately with even regularity of stitches Evaluate Evaluate Evaluate work continually as it is created
Cooking and nutrition	Healthy eating Growing and cooking with own	Fruit and vegetables Design	Hidden sugars in drinks (stand alone lesson)	Eating seasonally Design	Adapting a recipe Design	What could be healthier?	
TIGUTE OF THE PROPERTY OF THE	food (herbs peas beans potatoes)	 Design a smoothie 		 Create a healthy 	Design a biscuit	Design	
		carton packaging by hand or using ICT		and nutritious recipe for a	within a given budget, drawing	 Adapt a traditional recipe, 	
	Design Discuss what	software Make		savoury tart	upon previous	understanding that the nutritional value	
	dishes could be	wane		using seasonal ingredients,	tatste testing Make	of a recipe alters if	

	da waisas tha	Ob an family and	 	E-llanda bald		
	de using the	Chop furit and	considering the	 Follow a baking 	you remove,	
	etables we	vegetables safely to	taste, texture,	recipe	substitute or add	
nave	re grown	make a smoothie	smell and	 Cook safely, 	additional	
24-1	•	Identify if a food is a	appearance of	following basic	ingredients	
Make		fruit or a vegetable	the dish	hygiene rules	Write an amended	
	rn about •	Learn where and	Make	 Adapt a recipe 	method for a recipe	
	v to keep	how fruits and	 Know how to 	Evaluate	to incorporate the	
	e when	vegetables grow	prepare	 Evaluate a 	relevant changes to	
	paring food		themselves and	recipe,	ingredients	
and	· -	valuate	a work space to	considering:	 Design appealing 	
	•	Taste and evaluate	cook safely in,	taste, smell,	packaging to reflect	
Fredrick	_	different food	learning the	texture and	a recipe	
Evaluate		combinations	basic rules to	appearance	Make	
	cuss what	Describe	avoid food contamination	Suggest	Cut and prepare	
has	been learnt	appearance, smell		modifications	vegetables safely	
		and taste	Follow the		Use equipment	
	•	Suggest information	instructions		safely including	
		to be included on	within a recipe		knives, hot pans	
		packaging	Fuelusts		and hobs	
			Evaluate		 Know how to avoid 	
			Establish and		cross-	
			use design		contamination	
			criteria to help		 Follow a step by 	
			test and review		step method	
			dishes		carefully to make a	
			Describe the		recipe	
			benefits of			
			seasonal fruits		Evaluate	
			and vegetables		 Identify the 	
			and the impact		nutiritonal	
			on the		differences	
			environment,		between different	
			suggest points fo		products and	
			rimporvement		recipes	
			when making a		 Identify and 	
			seasonal tart		describe healthy	
					beneftis of food	
					groups	
				Torches		Doodlers (changed
Electrical						from Y5)
systems				Design		
(KS2 only)						Design

		 Design a torch, 	 Identify factors that
		giving	could be changed
		consideration to	on existing
		the target	products and
		audience and	explaining how
		creating both	these would alter
		design and	the form and
		success criteria	function of the
		focusing on	product
		features of	Develop design
		individual design	criteria based on
		ideas	findings from
		Make	investigating
		 Make a torch 	existing products
		with a working	Develop design
		electrical circuit	criteria that
		and switch	clarifies the target
		 Use appropriate 	user
		equipment to cut	Make
		and attach	Alter a product's
		materials	form and function
		Assemble a	by tinkering with its
		torch according	configuration
		to the design	Make a functional
		and success	series circuit
		criteria	incorporating a
		omona	motor
		Evaluate	Construct a
		Test and	product with
		evaluate the	consideration for
		success of the	
		final product	the design criteriaBreak down the
		ililai product	
			construction
			process into steps
			so that others can
			make the product
			Fuelvete
			Evaluate
			 Carry out a product
			analysis to look at
			the purpose of a
			product along with

				its strngths and weaknesses Determine which parts of a paorduct affect its function and which parts affect its form Analyse whether changes in configuration positively or negatively affect an existing product Peer evaluate a set of instructions to build a product
Digital world (KS2 only)		Design Develp design ideas for a technology pouch Draw and manipulate 2D shapes, using computer-aided design, to produce a point of sale badge Make Use a template when cutting and assembling the pouch Follow a list of design requirements Select and use appropriate tools and equipment		Navigating the world Design Write a design brief from information submitted by a client Develop design criteria to fulfil the clien's request Develp a product idea through annotated sketches Make Place and manoeuvre 3D objects using CAD Change the properties of or combine one or more 3D objects using CAD Evaluate

		for cutting, joining, shaping and decorating a foam pouch • Apply functional features Evaluate • Analyse and evaluate an existing product • Identify key features of a pouch		 Consider materials and their functional properties, especially those that are sustainable and recyclable (for example cork and bamboo) Explain material choices and why they were chosen Explain key functions and features of navigation tool
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The Kapow DT units have been carefully selected to show gradual progression towards the National Curriculum end of key stage attainment targets and and to cover everything in enough detail. Some key areas appear less frequently than others for example Textiles and this is deliberate. Working with textiles is only a small element of the Make strand and many of the making techniques are also covered with a range of materials in other units.

Similarly in Y2 the coverage of key areas is deliberately imbalanced as there are two mechanism units. This is because there is strong progression between the Y1 structures constructing a windmill and the Y2 Mechanisms Fairground Wheel and then again with the Y2 Mechanisms Making a moving monster. To omit one of these units would negatively impact on the progression.