	EYFS	Key Stage 1	Lower Key Stage 2	Upper Key Stage 2
Design	Participate in small group, class and one-to- one discussions, offering their own ideas, using recently introduced vocabulary; (C+L)	Design purposeful, functional and appealing products based on design criteria. Generate, model and communicate ideas using talking, drawing, templates, mock-ups and IT (as appropriate). Describe what they are making, how it works and what they need to do next.	Use research and criteria to develop appealing products which are fit for purpose. Use annotated sketches and prototypes to develop and explain ideas and be able to discuss them.	Use research and criteria to develop products which are appealing, innovative, fit for purpose and aimed at a specific audience. Generate, develop and communicate ideas in a range of ways such as annotated sketches, detailed plans and presentations.
Make	Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	Use a range of tools and equipment to complete practical tasks. Select from and use a range of materials and components including construction materials, textiles and ingredients.	Use a range of tools and equipment with accuracy. Select from and use a range of materials and components including construction materials, textiles and ingredients. Join and combine a range of materials.	Select and use a range of tools and equipment for a range of uses. Select from and use a wider range of materials and components. Join and combine a range of materials using appropriate methods.
Evaluate	Share their creations, explaining the process they have used;	Explore and evaluate existing products. Talk about their developing designs and what they like and don't like about products they have made. Consider and explain how the finished product could be improved using their design criteria.	Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. Understand how key events and individuals in DT have helped shape the world.	Analyse existing products and use this to inform decisions and refine ideas. Justify decisions during the design process. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. Understand how key events and individuals in DT have helped shape the world.
Technical Knowledge	Explore, use and refine a variety of artistic effects to express their ideas and feelings. Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively, sharing ideas, resources and skills. (EAD-DM)	Build structures, exploring how they can be made stronger, stiffer and more stable. Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.	Understand how to strengthen and reinforce structures. Use mechanical and electrical systems in own work.	Use mechanical and electrical systems in own work, including programming.
Food and Nutrition	Explore the natural world around them. (UW-DM) Manage their own needs. (PSED-DM)	Understand where food comes from. Use the basic principles of a healthy and varied diet to prepare dishes.	Understand the principles of a healthy and varied diet. Prepare and cook a variety of predominantly savoury dishes.	Use a range of cooking techniques to cook dishes for a healthy and varied diet. Understand seasonality and where ingredients originate.

						Key Stage 1				
appealing Generate, n using talkin ups a Describe v			Make Use a range of tools and equipment to complete practical tasks. Select from and use a range of materials and components including construction materials, textiles and ingredients.			Evaluate Explore and evaluate existing products. Talk about their developing designs and what they like and don't like about products they have made. Consider and explain how the finished product could be improved using their design criteria.	Technical Know Build structures, ex they can be made stiffer and more Explore and use med example, levers, slid and axles], in their	Food and Nutrition Understand where food comes from. Use the basic principles of a healthy and varied diet to prepare dishes.		
		1		-		Year A		1		
	Prior Learning	Inter (childrei learr	n will	Unit		Sequence of Lessons WALT (children will		Vocabula	iry	Outcome / Composite
Autumn A	Children will have an understanding and tried a range of fruits and vegetables. Some will have used utensils to cut or peel.	Learn disting between fi vegetable where the Design a fr vegeta smoothi accompa packag	uish ruit and es and y grow. ruit and able e and anying	Kapow Y1 Food – Cooking and Nutrition	2. To 3. To	o identify if a food is a fruit or a vegeta o identify where plants grow and whic o cut, juice, taste and compare fruit an o make and evaluate fruit and vegetab	parts we eat Carton l vegetables Fruit		nts fe	Children will make a smoothie based on vegetables and fruit they have tried.
Spring A	EYFS: Safely use and explore a variety of materials, tools and techniques. Y1/2: Moving vehicles: Wheels and axles	Use clear criteria to nets int structu	turn 2D o 3D	Kapow Y2 - Structures: constructing a windmill		 Design a structure including indiv and requirements in my design. Assemble a stable structure. To assemble the components of r Evaluate my project and adapt m 	ny structure.	Axle Bridge Design crit Model Net struct Packagin Stable Strong Templat Unstable	eria ure ng	Children design, create and evaluate a windmill structure.

					Weak	
Summer A	EYFS: Safely use and explore a variety of materials, tools and techniques. Kapow Y1/2: Wheels and axles; Kapow Y2: Structures	To use sliders and levers to make a moving story book for a given audience.	Kapow Y2 – Mechanisms: Make a Moving Story Book	 To explore making mechanisms To design a moving story book To construct a moving picture To test and evaluate their finished product 	Assemble Design Design criteria Evaluation Mechanism Model Sliders Stencil Target audience Template Test	Children design, create and evaluate a moving story book.
				Year B	1030	
	Prior Learning	Intent (children will learn)	Unit	Sequence of Lessons WALT (children will)	Vocabulary	Outcome / Composite
Autumn B	EYFS: Safely use a explore tools an techniques; Y1: Safely use ar explore tools an techniques; shar and explain creations. Kapow Y1 Fruit Smoothie unit	d and evaluate a healthy nd snack. d re	Kapow Y2 Cooking and Nutrition: A Balanced Diet	 To know what makes a balanced diet. To taste test food combinations. To design a healthy wrap. To make a healthy wrap. 	Balance Balanced diet Carbohydrate Design criteria Fruit Ingredients Oils Protein Sugar Vegetable	Children will design, make and evaluate a healthy wrap.
Spring B	EYFS: Safely use and explore a variety of materials, tools and techniques. Explore the natural world around them. Share their creations, explaining the process they have used.	Use a range of tools and textiles to create a puppet	Kapow: Y1 Textiles	 WALT: practise basic sewing techniques (children will use large needles and pre punched fabric to practise sewing) WALT: design and use a template (children will practise creating and cutting a template of 2 identical pieces) WALT: explore features that bring puppets to life (children will explore and draw a range of facial features on paper) WALT: design a puppet to perform a story (children will explore a range of puppets and design their own to use in a puppet show) WALT: make puppets using a own design (children will use a range of tools and techniques to join their templates together) WALT: evaluate their design (children will decide WWW/EBI) 	Decorate Design Fabric Glue Model Hand puppet Safety pin Stencil Technique Template	Children will design, make and evaluate a puppet.

Summer B	Kapow Y1	To make a vehicle	Kapow Y2	1.	WALT: explore a range of different vehicles and consider	Axle	Children will
	Use a range of	with wheels and	Mechanisms -		their similarities and differences - what does a vehicle	Axle holder	design, make
	tools and	axles	wheels and		need?	Design	and evaluate a
	textiles to		axles	2.	WALT: investigate using a range of tools and techniques to	Design criteria	vehicle for
	create a puppet				make moving axles and wheels (range of materials)	Frame	carrying water
	Y2 Kapow			3.	WALT: design a vehicle that will successfully carry a	Mechanism	
	structures				container of water	Pods	
	Y1/Y2 Science –			4.	WALT: make a vehicle	Wheel	
	Everyday			5.	WALT: evaluate a design and suggest improvements		
	Materials						

			L	.owe	er Key Stage 2				
develop appealing productswhich are fit for purpose.Use annotated sketches andand column		Make Use a range of tools and equipment with accuracy. Select from and use a range of materials and components including construction			Evaluate Investigate and analyse a range of existing products. valuate their ideas and products against their wn design criteria and consider the views of	ical Knowledge erstand how to engthen and prce structures. nechanical and	Food and Nutrition Understand the principles of a healthy and varied diet. Prepare and cook a		
explain id	leas and be able to scuss them.	materials, textiles and ingredients. Join and combine a range of materials.			others to improve their work. nderstand how key events and individuals in DT have helped shape the world. Year A		rical systems in own work.	variety of predominantly savoury dishes.	
	Prior Learning	Intent (children will learn)	Unit		Sequence of Lessons WALT (children will)		Vocabulary	Outcome / Composite	
Autumn A				2. 3.	WALT: investigate and explore different pneum systems. WALT: develop our understanding of pneumat design out on toys. WALT: create a working pneumatic system. WALT: assemble and evaluate a final piece.		Function Input Linkage Mechanism Motion Net Output Pivot Pneumatic system	Children will produce a working pneumatic toy.	
Spring A	Kapow Y1 Food Fruit and Vegetables	and exploded diagrams. Children will learn about how climate change effects food growth and how we can make use of seasonal vegetables to work towards sustaining a healthy future.	Kapow Y3 Food: eating seasonally.		WALT: know that climate effects food growth WALT: understand the advantages of eating seasonal foods grown in the UK. WALT: create a recipe that is healthy and nut using seasonal fruits and vegetables. WALT: safely follow a recipe when cooking.		Climate Evaluate Export Import Natural Recipe Seasons Sugar Vegetable Weather	To plan and make a seasonal dish.	
Summer A	Kapow Y2 Structures: constructin a windmill	The children will explore 2D and 3D shape and think about how these can be combined to	Kapow Y3: Structures: Constructing a Castle	coml WAL WAL	T: Recognise how multiple shapes (2D and 3D) bined to form a string and stable structure. T: design a castle. T: Construct 3D nets. T: Construct and evaluate a final product.	are	2D; 3D Castle Design; Net Scoring Shape	To design and create a 3D structure inspired by St Michaels Mount.	

	Kapow Y2 – Mechanisms: Make a	form a strong and stable structure.				Stiff; Stable Strong	
	Moving Story Book	They will look at 3D nets and design a castle.				Structure Tab	
		•					
	Prior Learning	Intent (children will learn)	Unit		Sequence of Lessons WALT (children will)	Vocabulary	Outcome / Composite
Autumn B	EYFS: Safely use and explore a variety of materials, tools and techniques Y1/2 Science Everyday Materials Kapow Y1 Textiles	Children will explore 2d pattern making, a range of stitches to join materials, before designing and making a purse or wallet.	Kapow Y3 Textile 2D to 3D	1. 2. 3. 4.	Explore a range of stitches used for joining materials. Explore and evaluate a range of different purse/wallet styles. Design and produce a 2D pattern Make and evaluate finished product.	Criteria Cross-stitch Design Fastening Fix Running stitch Seam Stitch Template Texture	Children will design and make a purse or wallet for an Egyptian Pharaoh
Spring B	Kapow Y2 Mechanisms Y4 Science Electricity	Combine their understanding of electrical circuits with the use of construction materials to make a torch.	Kapow Y4 Electrical Systems - Torches	1. 2. 3.	Explore a range of switches and lights Design a torch using recycled construction materials Make and evaluate a finished product	Battery Bulb Cell Conductor Insulator Circuit Switch Test	Children will design and make a torch using recycled materials.
Summer B	Kapow Y1 Food Fruit and Vegetables Kapow Y3 Food Eating Seasonably	Children will explore healthy eating, looking at foods from all food groups, in order to understand a balance of good health.	Kapow Y4 Food – Super Salads	1. 2. 3.	Understand hygiene rules, food storage and food safety and equipment safety guidance. Consider ingredient quantity and combinations, including dressings and topping, whilst identifying food groups. Putting into practice hygiene and safety knowledge, when preparing an experimental salad. Investigate and research to develop the ingredients and presentation of a salad and incorporating their knowledge of balance and good health. Plan the steps needed to prepare salad, using equipment safely and hygienically, explaining choices for their decisions. Evaluate against a set of criteria.	Bacteria Design Evaluation Flavour Healthy Hygiene	Children will design and make salad demonstrating their understanding of balance and good health, food hygiene and food safety.

				ι	Jppe	r Key S	stag	e 2						
Design				Make Evaluate						Technical Knowledge			Food and Nutrition	
Use research and criteria to develop products Select a			t and use	a range of to	ools and	d Analy	/se e>	kisting products and use	Use med	hanica	aland	Use a range of cooking		
which are a	ppealing, innovative, fit fo	r purpose equ	lipment fo	or a range of	uses.	th	is to	inform decisions and	electrical s	ystem	s in own	techn	iques to cook dishes	
and	aimed at a specific audien	ce. Selec	t from an	d use a wide	er range	2		refine ideas.	work,	includ	ling	for a	healthy and varied	
Generate, d	develop and communicate	ideas in a of r	materials	and compon	ents.	Justif	y dec	isions during the design	progr	ammii	ng.		diet.	
range of v	ways such as annotated sk	etches, Jo	in and co	mbine a rang	ge of			process.				Und	erstand seasonality	
deta	iled plans and presentatio	<mark>ns. m</mark>	aterials u	sing appropr	riate	Evalu	iate t	heir ideas and products				and	where ingredients	
			m	ethods.		agai	nst th	neir own design criteria					originate.	
						and	consi	der the views of others						
							to in	nprove their work.						
						Und	ersta	nd how key events and						
						inc	lividu	als in DT have helped						
							sł	hape the world.						
	1					Year A					-			
	Prior	Learning		Intent	t	Unit		Sequence of			Vocabul	ary	Outcome /	
			(children v					WALT (childre	en will)				Composite	
				learn)	1									
Autumn A	Kapow Y2 Structures:	•			•	•					Criteria	-	nderstand and use	
	Windmi	made up of a			nanical	2	7 0		-			chanical systems in		
		front cover and		sys	tems		make my pop up book		Input			heir products (or		
	Kapow Y2 Mechanisms:	Wheels and Axles	include a mixture nd of structures and		e a mixture ctures and		3	To use layers and space		-	chanism	example, gears, pulley		
								cover the working of r		-	Model		cams, levers and	
	Kapow Y3 Mechanica	-					4	To create a high-quali		N	Notion		ages) in the making	
	pneumatic	pneumatic toys mechanisms					suitable for a target us	ser			C	of a pop up book.		
			WI	thin it										
Spring A	Kapow Y1 Food: Fruit	and Vegetables	s Understand Kapo		ow Y5:	v Y5: 1.To understand where food come		comes	Balanced					
		0	whe	re food		What could from		n			thical	F	ollow a recipe to	
	Kapow Y3 Food: Eati	ng Seasonably	com	es from	be he	althier?	2.To	o understand the term 'h	ealthy'	Pr	ocessed	produce a healthy		
			To un	derstand			3.To	o adapt a traditional recip	be	F	Reared	k	olognaise sauce	
	Kapow Y4 Food: S	uper Salads	what	a healthy			4.To	o complete a food produc	ct				-	
			meal c	onsists of										
Summer A	Kapow Y3	To explore how	circuits	Kapow Y	/5-	1. Gra	aphite	e circuits – to explore circ	uits using		Battery		To design and	
	Mechanical systems	can be used for c		Electror	nic	-	•	e as a conductor.			Circuit		make an	
	and pneumatic toys.	purposes. To e	•	greeting c	ards			sign – design a greeting c	ard with a		Conducto	or	electronic greeting	
	Kapow Y4	series circuits an					-	circuit.			Design		card	
	Electrical Systems -	this knowledge to	o inform				-	the card- accurately labe	-		Graphite			
	Nightlights						negative and positive parts of the battery			Negative		Ś		

	Kapow Y5 and create an electronic			4. Adding the circuit- integrating the functional	Parallel circuit		
	Mechanical sy				circuits in the greeting cards.	Positive	
					Switch		
						Series circuit	
					Year B		
	Prior Learning	(ch	Intent ildren will learn)	Unit	Sequence of Lessons WALT (children will)	Vocabulary	Outcome / Composite
Autumn B	Kapow Y1 Fc	•		Food -	1. Taste a variety of biscuits.	Combining	Design and make
	•	etables	look at how	Celebrating	2. Design a recipe for your own biscuit.	Melting	an edible advent
	-0-		food is used to	culture and	3. Make biscuits using melting, combining, mixing,	Moulding	calendar.
	Kapow Y3/4 Foo	od – Super S		seasonality	rolling, shaping, moulding, finishing.	Natural	
			festivals and	ocasonanty	4. Design packaging for the biscuit	Processed	
	Kapow Y5 – Y	What could				Seasonal	
	Kapow Y5 – What could be healthier?					ocusonar	
Spring B	Kapow Y2 Stru		nes / Children will	Kapow Y5	1. Look at techniques for joining 2D frameworks.	Accurate	Make a bridge
op8 D	Playgrounds		,	Structures -	2. Make 3 D frameworks with tubes.	Arch bridge	using wood.
	i laysi curras	bridge			3. Draw plans and design a bridge	Beam bridge	
	Kanow V2	Structures:	•	Frame Structures -	4. Test and evaluate bridge design using paper.	Compression	
				Bridges	5. Make bridge with wood.	File	
	construction	Constructing a Windmill design and make their ow			6. Evaluate final product	Mark out	
	Kanow V/	Structures –				Reinforce	
	-	ing a Castle	the prototype			Set square	
	Construct	ing a castle	before making a			Structure	
			bridge.			Suspension	
			bridge.			bridge	
						Tension	
						Truss bridge	
Summer B	Kapow: Y1	Textiles -		Kapow Y5	1. Evaluate toys that have been made.	Appendage	Make a toy
Sammer D	Textiles	Combining		Textiles –	 2. Design a stuffed toy. 	Applique	wake a toy
	TEALIES	different		Stuffed Toys	3. Blanket stitch tutorial.	Blanket Stitch	
	Kapow Y3	fabric		Stulled 1098	4. Add appendages.	Design criteria	
	Textiles 2D to	shapes.			5. Applique.	Design criteria	
	3D	snapes.			6. Assemble	Pattern	
	30						
					7. Evaluate	Reinforce	