Year 2022 -	2023								
	CURRICULAR GOAL: KNOW HOW TO COMPONENT: Know how to develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world								
Other Curricular Goals									
		Clo	iss 2	Clas	ss 3	Class 4			
	Reception Expected	Year 1	Year 2	Year 3	Year 4	Year 5 Expected	Year 6		
•		Expected Build structures, explore how they can be made stronger, stiffer and more stable	Explore and use mechanisms in their products	Expected Apply understanding of how to strengthen, stiffen and reinforce more complex structures Understand and use mechanical systems in their products	Expected Understand and use electrical systems in their products	Begin to use computing to programme, monitor and control their products	Expected Apply their understanding of materials, mechanics and electrical systems and apply computing to monitor and control products		
		Year A – Autumn term Fire engine – linked to The Great Fire of London topic	Year A – Autumn term Fire engine – linked to The Great Fire of London topic	Year B – Spring term Lighthouses/light up signs	Year B - Spring term Lighthouses/light up signs	Year A – Autumn term Controllable carousels	Year A – Autumn term Controllable carousels		

Year A - Summer term - moving vehicles	Year A - Summer term - moving vehicles				
OMPONENT: Know k ake high-quality pro			. .	derstanding and skills in order to	o design and
Design	Design	Design	Design	Design	Design
Generate	Generate,	Generate ideas	Develop design	Generate ideas through	Produce
ideas	develop and	for an item,	criteria, based	brainstorming and identify a	detailed
through talk	model ideas	considering its	on research, to	purpose for their product	designs whic
and drawing,	through a	purpose and the	design functional,		have
drawing on	range of ways	user/'s	appealing	Draw up a specification for their	developed
own	including		products aimed	design	through a
experience	discussion,	Use simple	at individuals or		range of
to help	using	research	groups		ideas,
generate	templates,	methods to			including
ideas	mock ups and	inform the			cross-
	ICT.	design of			sectional and
		products			exploded
Needer	Talantif		Comments and I		diagrams
Design	Identify	Make drawings	Generate, model	Use prototypes, pattern pieces	Develop c
purposeful, functional	simple design	with labels when	and communicate	and computer-aided design to communicate their ideas.	Develop a
and	criteria	designing	ideas through discussion and	communicate their ideas.	design
	Maka simple	Establish criteria	annotated		specification
appealing products for	Make simple drawings and	for a successful	sketches	Develop a clear idea of what has	
	I al awings and	I UI U SUCCESSIUI	SKEICHES	Develop a clear ruea of what has	1
themselves	label parts	product	labelled drawings	to be done, planning how to use	

London topic Year B - Autumn term Fabric hand puppets	Year B - Autumn term Fabric hand puppets Make	Make	Make	Sketchup https://www.sketchup.com/plans- and-pricing/sketchup-free Make	Autumn term Controllable carousels
London topic Year B - Autumn term Fabric hand	Autumn term Fabric hand			https://www.sketchup.com/plans-	Controllable
London topic Year B - Autumn term Fabric hand	Autumn term Fabric hand			https://www.sketchup.com/plans-	Controllable
London topic Year B - Autumn term	Autumn term Fabric hand				Controllable
London topic Year B -	Autumn term Fabric hand				Controllable
London topic	Autumn term				Controllable
London topic					Controllable
rine of	Year B -				
Fire of					Autumn term
The Great		1			
linked to					Year A -
engine -	London topic			Controllable carousels	
term Fire	Great Fire of			Year A – Autumn term	
Autumn	linked to The				
			,		techniques
		J .	•		tools and
	Year A -				materials,
Model their					choosing appropriate
research		Voon R - summer			of their work,
					Plan the order
• • • • •			• •		
-					ways
applying			use the		a variety of
ideas,			planning how to	ICT when developing design ideas	their ideas in
their design			to be done,	information sources, including	modelling
Develop			idea of what has	Use results of investigations,	proposals by
			Develop a clear		their design
criteria				attempts fail	aspects of
design		before starting	specific features	alternative methods if the first	communicate
based on		their work			Explore, develop and
	design criteria Develop their design ideas, applying findings from their earlier research Model their ideas in card and paper Year A - Autumn term Fire engine - linked to	based on design criteria Develop their design ideas, applying findings from their earlier research Model their ideas in card and paper Year A - Autumn Fire engine - linked to The Great Fire of London topic	based on design criteria Develop their design ideas, applying findings from their earlier research Model their ideas in card and paper Year A - Autumn Fire engine - London topic Heir work before starting Year B - summer term Sewing pencil cases	based on design criteria Develop their design ideas, applying findings from their earlier research Model their ideas in card year A - Autumn Year A - Autumn Engine - Autumn Engine - Autumn Engine - Autumn Engine - Autumn Autum Autumn Autumn Autumn Autumn	based on design criteria Develop their design ideas, applying findings from their earlier research Model their ideas in card and paper Year A - Autumn term Fire engine - London topic

Use sim	ple range of tools	tools and	tools and	aesthetic qualities and work	Select from a
tools an	d and	equipment to	materials to	accurately	range of tools,
equipme	nt equipment	perform	ensure a high		materials and
safely t		practical tasks	quality finish	Slippers	equipment and
perform	vocabulary to	with increasing			techniques
practica	I name and	accuracy			and show an
tasks, e	.g. describe				understanding
scissors	, them				of their
hole pun	ch	Work safely and			functional
	Use these	accurately with a			properties and
Assemb	le, hand tools	range of simple			aesthetic
join and	safely and	tools			qualities use
combine	appropriately				safely and
materia	ls to perform				accurately
and	practical				
compone	ents tasks				Carousels
togethe	r	Measure, mark	Measure, mark	Measure and mark out accurately	Automaton
using a	Measure, cut	out, cut, score	out, cut and		Hammer, saw,
variety	of and score	and assemble	shape a range of		rasp, soldering
temporo	iry with some	components with	materials using		iron
methods	s, accuracy	more accuracy	appropriate tools		Assemble
e.g. glue	or		and assemble		components to
masking			components with		make working
tape			more accuracy		models

Select materials and components according to their properties	Select from and use a wide range of materials, including construction, textiles and ingredients according to their properties				
Year A - Autumn term Fire engine - linked to The Great Fire of London topic Year B - Autumn term Fabric hand puppets	Assemble, join and combine materials in order to make a product	Consider their ideas as they make progress and be willing to change elements if this helps to improve their work Select from and use a wider range of materials and components according to their properties	Join and combine materials and components accurately in temporary and permanent ways	Cut and join with accuracy to ensure a good quality finish to the product	Construct products using permanent joining techniques

	(running stitch)	Cut, shape and join fabric to make a simple product using basic sewing techniques (running stitch)	Measure, tape or pin, cut and join fabric with some accuracy (back stitch)	Sew using a range of different stitches, weave and knit	Produce templates and patterns, cutting and joining with accuracy to ensure a good quality finish to the product	Pin and stitch materials together to create a good quality finished product
		Year A – Autumn term Fire engine – linked to The Great Fire of London topic				
		Year B - Autumn term Fabric hand puppets (running stitch)				
- COMPO	NENT: Know h Explore and	iow to critique, Evaluate	evaluate and test Evaluate their	their ideas and pr Consider the	oducts and the work of others Investigate and analyse a range	Explain how
	evaluate a	their ideas	ideas and	views of others	of existing products	key events

range of existing products	and products against design criteria	products against their own design criteria to make improvements	to evaluate their work and make improvements based on this identify criteria that can be used for their own designs		and individuals in Design and Technology have helped to shape the world.
Evaluate their product by discussing how well it works in relation to the purpose	Evaluate against design criteria	Evaluate their product against original design criteria ~ how well does it meet the intended purpose?	Evaluate their work both during and at the end of the assignment	Evaluate the product against the original design specification	Evaluate their products, identifying strengths and areas for development : carrying out appropriate tests
Evaluate their product by asking questions about what they have made and how they have gone about it	Talk about their product, saying what they like and dislike about it	Disassemble and evaluate familiar products	Evaluate their product, carrying out appropriate tests	Personally evaluate the product and seek evaluation from others	Record their evaluations using drawings and labels Evaluate against their original criteria and suggest ways that their products could be improved

Understand where food	Use the basic principles of	Understand the principles of a	Understand and apply the	Prepare and cook a variety of predominantly savoury dishes	Prepare and cook a variety
comes from.	a healthy and varied diet to prepare dishes.	healthy and varied diet	principles of a healthy and varied diet	Know where and how a variety of ingredients are grown	of predominantly savoury dishes using a range of cooking techniques
Select and use appropriate fruit and vegetables, processes and tools (Fruit Salad ~ link to geography, look at the origins and use fruits chn may not have seen before ~ mango)	Follow safe procedures for food safety and hygiene (hand washing, hair tied up, Bridge ~ cutting in half, claw ~ slicing from the onset of the year. They chop their own ingredients and cook communally using a hob at the front of the	Develop an understanding of hygienic food preparation and storage (Storage in the fridge, foods kept at ambient temperate, use of tinned food. Storage of products in the fridge when completed. Taught about rules of reheating previously cooked food. Chn heat/cook on their own	Demonstrate hygienic food preparation and storage (Discuss that there's bacteria on fresh uncooked meat in preparation for them cutting it themselves in UKS2.)	Develop an understanding of the rules for basic food hygiene and other safe practices, e.g. hazards relating to the use of ovens (Use of coloured chopping boards to avoid cross contamination from raw meat.	Adhere to the rules for basic food hygiene and other safe practices, e.g. hazards relating to sharp implements and ovens

B	ear A and oring term		Year A and B autumn term	Weigh and measure with increasing accuracy (time, dry ingredients and liquids) (Chn pour ingredients onto the measuring scale and weigh own ingredients and use a measuring jug for liquids. Chn are working as a group, following each step of the process together)	Weigh and measure accurately (time, dry ingredients and liquids) (Chn work independently through the steps provided)
	Year A and B spring term	Year A and B autumn term		Year A and B summer term (Unit of written work to consolidate seasonality, healthy eating and the origins of ingredients)	Understand seasonality, know where and how a variety of ingredients are grown, reared, caught and processed. (Year A and B summer term

	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
Class 2	Fire engines	Sewing - puppets (running stitch)	Cookery	Cookery	Vehicles	Lighthouse
Class 3	Cookery	Cookery	Moving monsters	Torches/lighthouses		Sewing – pencil cases (back stitch)
Class 4	Carousels	Sewing - pin cushions (blanket stitch)	Automaton		Cookery	Cookery

Key vocabulary (This is cumulative; each year group uses the vocabulary covered in the previous class in addition to the new words)

Class 1	Class 2	Class 3	Class 4
	product	purpose	research
	user	design features	survey
	suitable	products	interviews
	ideas	prototype	questionnaires
	design ideas	pattern pieces	specification
	design criteria	annotated sketches	skills
	experiences	cross-sectional drawings	cams
	knowledge	exploded diagrams	pulleys
	existing	computer-aided design	gears
	develop	techniques	program
	communicate	functional properties	monitor
	model	aesthetic qualities	substituting
	components	mechanical components	processed
	templates	electrical components	texture
	mock ups	measure	aroma
	plan	functional properties	appearance
	tools	aesthetic qualities	taste
	equipment	input	nutrients
	materials	process	fibre
	textiles	output	innovation
		mechanical systems	sustainability
	strength	levers	hammer
	stiffness	linkages	tacks
	stability	pneumatic systems	Saw
	food ingredients	electrical circuits	rasp
	components	shell structure	drill
	characteristics	recycle	drill bit
	procedure	reuse	soldering iron
	safety	chopping	solder
	measure	slicing	bench hook
	mark out	grating	Masking tape
	cut and shape	mixing	
	assemble	spreading	
	join	kneading	
	combine	baking	
	finishing techniques	balanced diet	
	improvements		
	hygiene		
	cutting		
	peeling		
	grating		