

	Art and Design									
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
	Make your mark	Map it out	A growing artist	Ancient Egyptian	I need space /Make my voice heard					
Drawing	Hold and use drawing tools in different ways to create different lines and marks.	Create marks by using a map as a stimulus for drawing (draw a familiar	Use shapes identified within in objects as a method to draw.	xx	Analyse an image that considers impact, audience and purpose.	xx				
	Create marks by responding to different stimulus such as music as a group.	Overlap shapes to create new ones.	Create tone by shading. Achieve even tones when shading.		Draw the same image in different ways with different materials and					
	Overlap shapes to create new ones. Use mark making to replicate texture.		Make texture rubbings.		techniques. Make a collagraph plate.					
	Look carefully to make an observational drawing.		Create art from textured paper.		Make a collagraph print.					
	Complete a continuous line drawing.		Hold and use a pencil to shade.		Develop drawn ideas for a print.					
			Tear and shape paper. Use paper shapes to create		Combine techniques to create a final composition.					
			a drawing.		Decide what materials and tools to use based on					
			Use drawing tools to take a rubbing.		experience and knowledge.					
			Make careful observations to accurately draw an object.		MMVH Use symbolism as a way to					
			Create abstract		create imagery.					
			compositions to draw more expressively.		Combine imagery into unique compositions.					
			PP Use pencils of different grades to shade and add		Achieve the tonal technique called chiaroscuro.					
			Hold a pencil with varying pressure to create		Make handmade tools to draw with.					
			different marks.		Use charcoal to create chiaroscuro effects					



			Hea absorbation and			
			Use observation and			
			sketch objects quickly.			
			Draw objects in proportion			
			to each other.			
			Use charcoal and a rubber			
			to draw tone.			
			Use scissors and paper as a			
			method to 'draw'.			
			Make choices about			
			arranging cut elements to			
			create a composition.			
			create a composition.			
			Create a wax resist			
			background.			
			background.			
			Use different tools to			
			scratch into a painted			
			surface to add contrast			
			and pattern.			
			Choose a section of a			
			drawing to recreate as a			
			print.			
			Create a monoprint.			
		Colour splash/Life in		Light and dark	Portraits	
		colour				
	xx	Combine primary coloured	xx	Mix a tint and a shade by	Develop a drawing into a	xx
Painting and		materials to make		adding black or white.	painting.	
mixed media		secondary colours.		_	_	
		,		Use tints and shades of a	Create a drawing using	
		Mix secondary colours in		colour to create a 3D	text as lines and tone.	
		paint.		effect when painting.		
		1 · · · · · · · ·		- 3	Experiment with materials	
		Choose suitable sized paint		Apply paint using different	and create different	
		brushes.		techniques eg. stippling,	backgrounds to draw onto.	
		Si dallea.		dabbing, washing.	Sackgrounds to draw offto.	
		Clean a paintbrush to		dabbilig, wasiiiig.	Use a photograph as a	
				Chaosa suitable naintina	starting point for a mixed-	
		change colours.		Choose suitable painting		
		Dutas with abit at a section		tools.	media artwork.	
		Print with objects, applying				
		a suitable layer of paint to				



	the printing surface.	Arrange objects to create	Take an interesting	
	Overlap paint to mix new	a still life composition.	portrait photograph,	
	colours.		exploring different angles.	
		Plan a painting by drawing		
	Use blowing to create a	first.	Adapt an image to create a	
	paint effect.		new one.	
	•	Organise painting		
	Make a paint colour darker	equipment independently,	Combine materials to	
	or lighter (creating shades)	making choices about tools	create an effect.	
	in different ways eg.	and materials.		
	adding water, adding a		Choose colours to	
	lighter colour.		represent an idea or	
	nge.		atmosphere.	
	LIC			
	Mix a variety of shades of		Develop a final	
	a secondary colour.		composition from	
	a secondary coroar.		sketchbook ideas.	
	Make choices about		S.C.C.S. BOOK Ideas.	
	amounts of paint to use			
	when mixing a particular			
	colour.			
	55.5di.			
	Match colours seen			
	around them.			
	around them.			
	Create texture using			
	different painting tools.			
	aerent paniting tools.			
	Make textured paper to			
	use in a collage.			
	ase a conage.			
	Choose and shape collage			
	materials eg cutting,			
	tearing.			
	Compose a collage,			
	arranging and overlapping			
	pieces for contrast and			
	effect.			
	Add painted detail to a			
	collage to			
	enhance/improve it			
	cimanec, improve it			
L				



	Paper play/clay houses		Abstract space and shape			Interactive installation/
						Making memories
	Roll and fold paper.	xx	Join 2D shapes to make a	xx	xx	Make an explosion
Sculpture and			3D form.			drawing in the style of
3D	Cut shapes from paper and card.					Cai Guo-Qiang, exploring
			Join larger pieces of			the effect of different
	Cut and glue paper to make 3D		materials, exploring what			materials.
	structures.		gives 3D shapes stability.			
			61 1: 1:00			Try out ideas on a small
	Decide the best way to glue something.		Shape card in different			scale to assess their effec
	Constant of the section		ways eg. rolling, folding			tter en elemente elemente te
	Create a variety of shapes in paper, eg		and choose the best way			Use everyday objects to
	spiral, zig-zag.		to recreate a drawn idea.			form a sculpture.
	Make larger structures using newspaper		Identify and draw negative			Transform and manipulat
	rolls.		spaces.			ordinary objects into
						sculpture by wrapping,
	CH		Plan a sculpture by			colouring, covering and
	Smooth and flatten clay.		drawing.			joining them.
	Roll clay into a cylinder or ball.		Choose materials to scale			Try out ideas for making
			up an idea.			sculpture interactive.
	Make different surface marks in clay.					
			Create different joins in			Plan an installation
	Make a clay pinch pot.		card eg. slot, tabs,			proposal, making choices
			wrapping.			about light, sound and
	Mix clay slip using clay and water.					display.
			Add surface detail to a			
	Join two clay pieces using slip.		sculpture using colour or			MM
			texture.			Translate a 2D image into
	Make a relief clay sculpture.					3D form.
			Display sculpture			
	Use hands in different ways as a tool to					Manipulate cardboard to
	manipulate clay.					create 3D forms (tearing,
	Use clay tools to score clay.					cutting, folding, bending,
	Ose clay tools to score clay.					ripping).
						Manipulate cardboard to
						create different textures.
						Make a cardboard relief
						sculpture.
						Make visual notes to
						generate ideas for a final
						piece.



						Translate ideas into sculptural forms
		Map it out		Ancient Egyptian scrolls/		Photo opportunity
		iviap it out		Fabric of nature		Prioto opportunity
	xx	Draw a map to illustrate a	XX	Use a sketchbook to	XX	Create a photomontage.
Craft and		journey.		research a subject using		
Design				different techniques and		Create artwork for a
		Separate wool fibres ready		materials to present ideas.		design brief. Use a camera
		to make felt.				or tablet for photography.
				Construct a new paper		
		Lay wool fibres in opposite		material using paper,		Identify the parts of a
		directions to make felt.		water and glue		camera.
		Roll and squeeze the felt		Use symbols to reflect		Take a macro photo,
		to make the fibres stick		both literal and figurative		choosing an interesting
		together.		ideas.		composition.
		Add details to felt by		Produce and select an		Manipulate a photograph
		twisting small amounts of		effective final design.		using photo editing tools.
		wool.		_		
				Make a scroll.		Use drama and props to
		Choose which parts of				recreate imagery.
		their drawn map to		Make a zine.		
		represent in their 'stained				Take a portrait
		glass'.		Use a zine to present		photograph.
				information.		
		Overlap cellophane/tissue				Use a grid method to copy
		to create new colours.		FN		a photograph into a
				Select imagery and use as		drawing.
		Draw a design onto a		inspiration for a design		
		printing polystyrene tile		project.		
		without pushing the pencil				
		right through the surface.		To know how to make a mood board.		
		Apply paint or ink using a		mood board.		
		printing roller.		Recognise a theme and		
		printing roller.		develop colour palettes		
		Smooth a printing tile		using selected imagery and		
		evenly to transfer an		drawings.		
		image.		arawings.		
		illiage.		Draw small sections of one		
		Try out a variety of ideas		image to docs on colours		
		for adapting prints into 2D		and texture.		
		or 3D artworks.		and texture.		



				Develop observational		1
				drawings into shapes and		
				pattern for design.		
				Transfer a design using a		
				Transfer a design using a		
				tracing method.		
				Make a repeating pattern		
				tile using cut and torn		
				paper shapes.		
				paper snapes.		
				Use glue as an alternative		
				batik technique to create		
				patterns on fabric.		
				patterns on rabite.		
				Use materials, like glue, in		
				different ways depending		
				on the desired effect.		
				on the desired effect.		
				Paint on fabric.		
				Tunic on rabile.		
				Wash fabric to remove		
				glue to finish a decorative		
				fabric piece		
				ida.io piece		
	Throughout Art and Design children will	Throughout Art and Design	Art from the past can give	Art from the past can give	Artists are influenced by	Artists are influenced by
Knowledge of	learn that;	children will learn that;	us clues about what it was	us clues about what it was	what is going on around	what is going on around
artists	·		like to live at that time.	like to live at that time.	them; for example culture,	them; for example culture,
	Some artists are influenced by things	Some artists are influenced			politics and technology.	politics and technology.
	happening around them.	by things happening	The meanings we take	The meanings we take		-
		around them.	from art made in the past	from art made in the past	Artists 'borrow' ideas and	Artists 'borrow' ideas and
	Some artists create art to make people		are influenced by our own	are influenced by our own	imagery from other times	imagery from other times
	aware of good and bad things	Some artists create art to	ideas.	ideas.	and cultures to create new	and cultures to create new
	happening in the world around them.	make people aware of			artworks.	artworks.
		good and bad things	Designers can make	Designers can make		
	Sometimes artists concentrate on how	happening in the world	beautiful things to try and	beautiful things to try and	How an artwork is	How an artwork is
	they are making something rather than	around them.	improve people's everyday	improve people's everyday	interpreted will depend on	interpreted will depend on
	what they make.		lives.	lives.	the life experiences of the	the life experiences of the
		Sometimes artists			person looking at it.	person looking at it.
	Artists living in different places at	concentrate on how they	How and where art is	How and where art is		
	different times can be inspired by	are making something	displayed has an effect on	displayed has an effect on	Artists can use symbols in	Artists can use symbols in
	similar ideas or stories.	rather than what they	how people interpret it.	how people interpret it.	their artwork to convey	their artwork to convey
		make.			meaning.	meaning.
	Art can be figurative or abstract.		Artists have different	Artists have different		
		Artists living in different	materials available to them	materials available to them	Sometimes artists add	Sometimes artists add
		places at different times			extra meaning to what	extra meaning to what
L	ı		1	ı	·	·



Artists choose materials that suit what	can be inspired by similar	depending on when they	depending on when they	they create by working in	they create by working in
they want to make.	ideas or stories.	live in history.	live in history.	places where they don't	places where they don't
they want to make.	ideas of stories.	•	1		' '
III. skarke sa sa dan sa Paraka ka sha sa ka sa	Astronomic Committee on	Artists can make their own	Artists can make their own	have permission to work.	have permission to work.
Illustrators use drawn lines to show how	Art can be figurative or	tools.	tools.		
characters feel.	abstract.			Artists use self-portraits to	Artists use self-portraits to
		Artists experiment with	Artists experiment with	represent important things	represent important things
Artists try out different combinations of	Artists choose materials	different tools and	different tools and	about themselves.	about themselves.
collage materials to create the effect	that suit what they want to	materials to create	materials to create		
they want.	make.	texture.	texture.	Artists create works that	Artists create works that
				make us question our	make us question our
Artists can use the same material (felt)	Illustrators use drawn lines	Artists can work in more	Artists can work in more	beliefs.	beliefs.
to make 2D or 3D artworks.	to show how characters	than one medium.	than one medium.		
	feel.			Artists find inspiration in	Artists find inspiration in
Artists and designers can create work to		Artist make decisions	Artist make decisions	other artist's work,	other artist's work,
match a set of requirements; a 'brief' or	Artists try out different	about how their work will	about how their work will	adapting and interpreting	adapting and interpreting
'commission'.	combinations of collage	be displayed.	be displayed.	ideas and techniques to	ideas and techniques to
commission .	materials to create the	be displayed.	be displayed.	create something new.	create something new.
	effect they want.	Artists choose what to	Artists choose what to	create something new.	create something new.
	effect they want.			Art can be a form of	Art can be a form of
	A	include in a composition,	include in a composition,		
	Artists can use the same	considering both what	considering both what	protest.	protest.
	material (felt) to make 2D	looks good together and	looks good together and		
	or 3D artworks.	any message they want to	any message they want to	Artists use art to tell	Artists use art to tell
		communicate.	communicate.	stories about things that	stories about things that
	Artists and designers can			are important to them;	are important to them;
	create work to match a set	Designers collect visual	Designers collect visual	looking at artworks from	looking at artworks from
	of requirements; a 'brief'	ideas from a wide range of	ideas from a wide range of	the past can reveal	the past can reveal
	or 'commission'.	sources, sometimes	sources, sometimes	thoughts and opinions	thoughts and opinions
		collecting these as a mood	collecting these as a mood	from that time.	from that time.
		board.	board.		
				Art sometimes creates	Art sometimes creates
		Artists and designers	Artists and designers	difficult feelings when we	difficult feelings when we
		sometimes choose	sometimes choose	look at it	look at it
		techniques based on the	techniques based on the		
		time and money available	time and money available	Artists can choose their	Artists can choose their
		to them.	to them.	medium to create a	medium to create a
				particular effect on the	particular effect on the
		Artists use drawing to plan	Artists use drawing to plan	viewer.	viewer.
		ideas for work in different	ideas for work in different	viewei.	viewei.
				Artists can combine	Artists can combine
		media.	media.	Artists can combine	Artists can combine
				materials; for example	materials; for example
				digital imagery with paint	digital imagery with paint
				or print.	or print.
				Art can be interactive; the	Art can be interactive; the
				viewer becomes part of it,	viewer becomes part of it,
				experiencing the artwork	experiencing the artwork



					with more than one of the	with more than one of the
					senses.	senses.
					Artists use techniques like	Artists use techniques like
					chiaroscuro to create	chiaroscuro to create
					dramatic light and shade	dramatic light and shade
					when drawing or painting.	when drawing or painting.
					Artists can use materials to	Artists can use materials to
					respond to a feeling or	respond to a feeling or
					idea in an abstract way.	idea in an abstract way.
					Artists take risks to try out	Artists take risks to try out
					ideas; this can lead to new	ideas; this can lead to new
					techniques being	techniques being
					developed.	developed.
					Artists can make work by	Artists can make work by
					collecting and combining	collecting and combining
					ready-made objects to create 'assemblage'.	ready-made objects to create 'assemblage'.
					create assemblage.	create assemblage.
					Artforms are always	Artforms are always
					evolving as materials and	evolving as materials and
					techniques change over time.	techniques change over time.
					time.	time.
Frankratia a	Describe and compare features of their	Describe and compare	Confidently explain their	Confidently explain their	Discuss the processes used	Discuss the processes used
Evaluating and analysing	own and others' artwork.	features of their own and others' artwork.	ideas and opinions about their own and others'	ideas and opinions about their own and others'	by themselves and by other artists, and describe	by themselves and by other artists, and describe
and analysing	Evaluate art with an understanding of	others artwork.	artwork, with an	artwork, with an	the particular outcome	the particular outcome
	how art can be varied and made in	Evaluate art with an	understanding of the	understanding of the	achieved.	achieved.
	different ways and by different people.	understanding of how art	breadth of what art can be	breadth of what art can be		
		can be varied and made in	and that there are many	and that there are many	Consider how effectively	Consider how effectively
	Explain their ideas and opinions about their own and others' artwork,	different ways and by different people.	ways to make art.	ways to make art.	pieces of art express emotion and encourage	pieces of art express emotion and encourage
	beginning to recognise the stories and	different people.	Discuss and begin to	Discuss and begin to	the viewer to question	the viewer to question
	messages within and showing an	Explain their ideas and	interpret meaning and	interpret meaning and	their own ideas	their own ideas
	understanding of why they may have	opinions about their own	purpose of artwork,	purpose of artwork,		
	made it.	and others' artwork,	understanding how artists	understanding how artists	Explain how art can be	Explain how art can be
	Dogin to tally about have the second	beginning to recognise the	can use art to	can use art to	created to cause reaction	created to cause reaction
	Begin to talk about how they could improve their own work. Talk about	stories and messages within and showing an	communicate.	communicate.	and impact and be able to consider why an artist	and impact and be able to consider why an artist
	how art is made.	understanding of why they	Begin to carry out a	Begin to carry out a	chooses to use art in this	chooses to use art in this
		may have made it.	problem-solving process	problem-solving process	way.	way.



		Begin to talk about how they could improve their own work. Talk about how art is made.	and make changes to improve their work. Use more complex vocabulary when discussing their own and others' art. Discuss art considering how it can affect the lives of the viewers or users of the piece. Evaluate their work more regularly and independently during the planning and making process.	and make changes to improve their work. Use more complex vocabulary when discussing their own and others' art. Discuss art considering how it can affect the lives of the viewers or users of the piece. Evaluate their work more regularly and independently during the planning and making process.	Independently use their knowledge of tools, materials and processes to try alternative solutions and make improvements to their work which takes account of context and intention.	Independently use their knowledge of tools, materials and processes to try alternative solutions and make improvements to their work which takes account of context and intention.
Generating ideas	Explore their own ideas using a range of media. Generate ideas from a range of stimuli, using research and evaluation of techniques to develop their ideas and plan more purposefully for an outcome.	Explore their own ideas using a range of media. Generate ideas from a range of stimuli, using research and evaluation of techniques to develop their ideas and plan more purposefully for an outcome.	Generate ideas from a range of stimuli, using research and evaluation of techniques to develop their ideas and plan more purposefully for an outcome	Generate ideas from a range of stimuli, using research and evaluation of techniques to develop their ideas and plan more purposefully for an outcome	Develop ideas more independently from their own research. Explore and record their plans, ideas and evaluations to develop their ideas towards an outcome. Draw upon their experience of creative work and their research to develop their own starting points for creative outcomes.	Develop ideas more independently from their own research. Explore and record their plans, ideas and evaluations to develop their ideas towards an outcome. Draw upon their experience of creative work and their research to develop their own starting points for creative outcomes.
Sketch books	Use sketchbooks to explore ideas. Experiment in sketchbooks, using drawing to record ideas. Use sketchbooks to help make decisions about what to try out next.	Use sketchbooks to explore ideas. Experiment in sketchbooks, using drawing to record ideas. Use sketchbooks to help make decisions about what to try out next.	Use sketchbooks purposefully to improve understanding, develop ideas and plan for an outcome	Use sketchbooks purposefully to improve understanding, develop ideas and plan for an outcome	Using a systematic and independent approach, research, test and develop ideas and plans using sketchbooks	Using a systematic and independent approach, research, test and develop ideas and plans using sketchbooks



			Design and Technolog	У		
		1	Structures			T
Design	Constructing a windmill Learning the importance of a clear design criteria. Including individual preferences and requirements in a design.	Baby bear's chair Generate and communicate ideas using sketching and modelling. Learning about different types of structures, found in natural world and in everyday objects.	Constructing a castle Designing a castle with key features to appeal to a specific person/purpose. Drawing and labelling a castle design using 2D shapes, labelling: -the 3D shapes that will create the features - materials needed and colours. Designing and/or decorating a castle tower	Pavilions Designing a stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect. Building frame structures designed to support weight.	XX	Playgrounds Designing a playground featuring a variety of different structures, givin careful consideration to how the structures will be used, considering effective and ineffective designs
Make	Making stable structures from card, tape and glue. Learning how to turn 2D nets into 3D structures. Following instructions to cut and assemble the supporting structure of a windmill. Making functioning turbines and axles which are assembled into a main supporting structure.	Making a structure according to design criteria. Creating joints and structures from paper/card and tape. Building a strong and stiff structure by folding paper.	on CAD software. Constructing a range of 3D geometric shapes using nets. Creating special features for individual designs. Making facades from a range of recycled materials.	Creating a range of different shaped frame structures. Making a variety of free standing frame structures of different shapes and sizes. Selecting appropriate materials to build a strong structure and cladding. Reinforcing corners to strengthen a structure. Creating a design in accordance with a plan. Learning to create different textural effects with materials.	XX	Building a range of play apparatus structures drawing upon new and prior knowledge of structures. Measuring, marking and cutting wood to create a range of structures. Using a range of material to reinforce and add decoration to structures.
Evaluate	Evaluating a windmill according to the design criteria, testing whether the structure is strong and stable and altering it if it isn't. Suggest points for improvements	Exploring the features of structures. Comparing the stability of different shapes.	Evaluating own work and the work of others based on the aesthetic of the finished product and in comparison to the original design.	Evaluating structures made by the class. Describing what characteristics of a design and construction made it the most effective.	XX	Improving a design plan based on peer evaluation Testing and adapting a design to improve it as it developed.



		Testing the strength of own structures. Identifying the weakest part of a structure.	Suggesting points for modification of the individual designs.	Considering effective and ineffective designs		Identifying what makes a successful structure.
		Evaluating the strength, stiffness and stability of				
		own structure.				
Technical Knowledge	To understand that the shape of materials can be changed to improve the strength and stiffness of structures. To understand that cylinders are a strong type of structure (e.g. the main shape used for windmills and lighthouses). To understand that axles are used in structures and mechanisms to make parts turn in a circle. To begin to understand that different structures are used for different purposes. To know that a structure is something that has been made and put together.	To know that shapes and structures with wide, flat bases or legs are the most stable. To understand that the shape of a structure affects its strength. To know that materials can be manipulated to improve strength and stiffness. To know that a structure is something which has been formed or made from parts. To know that a 'stable' structure is one which is firmly fixed and unlikely to change or move. To know that a 'strong' structure is one which does not break easily.	To understand that wide and flat based objects are more stable. To understand the importance of strength and stiffness in structures	To understand what a frame structure is. To know that a 'freestanding' structure is one which can stand on its own.	XX	To know that structures can be strengthened by manipulating materials and shapes.
		To know that a 'stiff' structure or material is one				
		which does not bend easily				
	<u> </u>	Willest does not bend easily	Mechanisms	1		
		Fairground Wheel/Making a moving monster		Making a slingshot car	Making a pop up book	
Design	xx	FGW- Selecting a suitable linkage system to produce the desired motion.	xx	Designing a shape that reduces air resistance.	Designing a pop-up book which uses a mixture of structures and mechanisms.	xx



Make	XX	Designing a wheel. MM- Creating a class design criteria for a moving monster. Designing a moving monster for a specific audience in accordance with a design criteria. FGW- Selecting materials according to their characteristics. Following a design brief. MM- Making linkages using card for levers and split pins for pivots. Experimenting with linkages adjusting the widths, lengths and thicknesses of card used.	xx	Drawing a net to create a structure from. Choosing shapes that increase or decrease speed as a result of air resistance. Personalising a design. Measuring, marking, cutting and assembling with increasing accuracy. Making a model based on a chosen design.	Naming each mechanism, input and output accurately. Storyboarding ideas for a book. Following a design brief to make a pop up book, neatly and with focus on accuracy. Making mechanisms and/or structures using sliders, pivots and folds to produce movement. Using layers and spacers to hide the workings of mechanical parts for an aesthetically pleasing result.	xx
Evaluate	XX	components neatly. FGW- Evaluating different designs. Testing and adapting a design MM- Evaluating own designs against design criteria. Using peer feedback to modify a final design.	xx	Evaluating the speed of a final product based on: the effect of shape on speed and the accuracy of workmanship on performance.	Evaluating the work of others and receiving feedback on own work. Suggesting points for improvement.	xx
Technical knowledge	хх	FGW- To know that different materials have different properties and are therefore suitable for different uses.	xx	To understand that all moving things have kinetic energy.	To know that mechanisms control movement. To understand that mechanisms can be used	xx



		MM- To know that mechanisms are a collection of moving parts that work together as a machine to produce movement. To know that there is always an input and output in a mechanism. To know that an input is the energy that is used to start something working. To know that an output is the movement that happens as a result of the input. To know that a lever is something that turns on a pivot. To know that a linkage mechanism is made up of a		To understand that kinetic energy is the energy that something (object/person) has by being in motion. To know that air resistance is the level of drag on an object as it is forced through the air. To understand that the shape of a moving object will affect how it moves due to air resistance.	to change one kind of motion into another. To understand how to use sliders, pivots and folds to create paper-based mechanisms.	
		series of levers.				
		•	Cooking and Nutrition	•		
	Smoothies		Eating Seasonally		Developing a recipe	
Design	Designing smoothie carton packaging by-hand.	XX	Designing a recipe for a savoury tart.	XX	Adapting a traditional recipe, understanding that the nutritional value of a recipe alters if you remove, substitute or add additional ingredients. Writing an amended method for a recipe to incorporate the relevant changes to ingredients. Designing appealing packaging to reflect a recipe. Researching	xx



					existing recipes to inform	
					ingredient choices.	
Make	Chopping fruit and vegetables safely to	xx	Following the instructions	XX	Cutting and preparing	xx
	make a smoothie.		within a recipe.		vegetables safely.	
	Juicing fruits safely to make a smoothie.		Tasting seasonal		Using equipment safely,	
			ingredients.		including knives, hot pans	
					and hobs.	
			Selecting seasonal			
			ingredients.		Knowing how to avoid	
					cross-contamination.	
			Peeling ingredients safely.			
					Following a step by step	
			Cutting safely with a		method carefully to make	
			vegetable knife.		a recipe.	
Evaluate	Tasting and evaluating different food	XX	Establishing and using	XX	Identifying the nutritional	Xx
	combinations.		design criteria to help test		differences between	
			and review dishes.		different products and	
	Describing				recipes.	
	appearance, smell and taste.		Describing the benefits of			
	Suggesting information to be included		seasonal fruits and		Identifying and describing	
	on packaging.		vegetables and the impact		healthy benefits of food	
			on the environment.		groups	
	Comparing their own smoothie with		_			
	someone else's.		Suggesting points for			
			improvement when			
			making a seasonal tart.			
Danier	Heine a templete to avente a design for a		Textiles			Designation a consistence time
Design	Using a template to create a design for a	XX	xx	XX	XX	Designing a waistcoat in
	puppet.					accordance to a specification linked to set
						·
						of design criteria.
						Annotating designs, to
						explain their decisions.
Make	Cutting fabric neatly with scissors.	XX	XX	XX	XX	Using a template when
iviane	Cutting labilic licatly with scissol's.	**	^^	**	^^	cutting fabric to ensure
						they achieve the correct
	Using injuing methods to decorate a					
	Using joining methods to decorate a					
	Using joining methods to decorate a puppet.					shape.
	puppet.					shape.
	puppet. Sequencing the steps taken during					shape. Using pins effectively to
	puppet.					shape.



					Marking and cutting fabric accurately, in accordance with their design.
					Sewing a strong running stitch, making small, neat stitches and following the edge.
					Tying strong knots.
					Decorating a waistcoat, attaching features (such as appliqué) using thread.
					Finishing the waistcoat with a secure fastening (such as buttons).
					Learning different decorative stitches.
					Sewing accurately with evenly spaced, neat stitches.
Reflecting on a finished product, explaining likes and dislikes.	xx	xx	XX	xx	Reflecting on their work continually throughout the design, make and evaluate process.
1		Electrical Systems (KS2 only)			
			Torches	Doodlers	
xx	хх	хх	Designing a torch, giving consideration to the target audience and creating both design and success criteria focusing on features of individual design ideas.	Identifying factors that could be changed on existing products and explaining how these would alter the form and function of the product. Developing design criteria based on findings from investigating existing products.	xx
		explaining likes and dislikes.	explaining likes and dislikes. Electrical Systems (KS2 only)	Electrical Systems (KS2 only) XX XX XX Designing a torch, giving consideration to the target audience and creating both design and success criteria focusing on features of individual	Electrical Systems (KS2 only) Torches XX XX Designing a torch, giving consideration to the target audience and creating both design and success criteria focusing on features of individual design ideas. Electrical Systems (KS2 only) Torches Doodlers Identifying factors that could be changed on existing products and explaining how these would alter the form and function of the product. Developing design criteria based on findings from investigating existing



					Developing design criteria	
					that clarifies the target	
					user.	
Make	XX	XX	xx	Making a torch with a	Altering a product's form	XX
a.c	74.	224	7.00	working electrical circuit	and function by tinkering	7
				and switch.		
				and Switch.	with its configuration.	
				Using appropriate	Making a functional series	
				equipment to cut and	circuit, incorporating a	
				attach materials.	motor.	
				Assembling a torch	Constructing a product	
				according to the design	with consideration for the	
				and success criteria.	design criteria. Breaking	
					down the construction	
					process into steps so that	
					others can make the	
					product.	
Evaluate	XX	xx	XX	Evaluating electrical	Carry out a product	xx
				products.	analysis to look at the	
					purpose of a product along	
				Testing and evaluating the	with its strengths and	
				success of a final product.	weaknesses.	
					Determining which parts of	
					a product affect its	
					function and which parts	
					affect its form.	
					Analysing whether changes	
					in configuration positively	
					or negatively affect an	
					existing product.	
					Peer evaluating a set of	
					instructions to build a	
					product	
Technical	XX	xx	xx	To understand that	To know that series circuits	xx
knowledge				electrical conductors are	only have one direction for	
				materials which electricity	the electricity to flow.	
				can pass through.	-	
				1 '	To know when there is a	
				To understand that	break in a series circuit, all	
				electrical insulators are	components turn off.	
1				e.eearical modiators are	components tarn on.	



	ı	1	T		1	
				materials which electricity	To know that an electric	
				cannot pass through.	motor converts electrical	
					energy into rotational	
				To know that a battery	movement, causing the	
				contains stored electricity	motor's axle to spin.	
				that can be used to power		
				products.	To know a motorised	
					product is one which uses	
				To know that an electrical	a motor to function.	
				circuit must be complete		
				for electricity to flow.		
				, , , , , , ,		
				To know that a switch can		
				be used to complete and		
				break an electrical circuit.		
	<u> </u>	<u> </u>	Digital World (KS2)	break arrefeet fear en eart.	<u> </u>	1
			Wearable Technology			Navigating the world
Design	xx	XX	Problem solving by	XX	XX	Writing a design brief from
Design	, AA		suggesting which features	, AA	AA	information submitted by
			on a micro:bit might be			a client.
			useful and justifying my			a chefft.
			ideas.			Developing design criteria
			lueas.			to fulfil the client's request
			Danning and manipulation			to fulfil the client's request
			Drawing and manipulating			Canaidadina and averaghina
			2D shapes, using			Considering and suggesting
			computer-aided design, to			additional functions for my
			produce a point of sale			navigation tool
			badge.			
						Developing a product idea
			Developing design ideas			through annotated
			through annotated			sketches
			sketches to create a			
			product concept.			Placing and manoeuvring
						3D objects, using CAD
			Developing design criteria			
			to respond to a design			Changing the properties of,
			brief.			or combine one or more
						3D objects, using CAD
Make	xx	xx	Following a list of design	xx	xx	Considering materials and
			requirements.			their functional properties,
						especially those that are
			Writing a program to			sustainable and recyclable
			control (button press)			(for example, cork and
			and/or monitor (sense			bamboo).
						·
L	l .	I	1	L	l .	



			light) that will initiate a flashing LED algorithm.			Explaining material choices and why they were chosen as part of a product concept.
						Programming an N,E, S,W cardinal compass
Evaluate	xx	xx	Analysing and evaluating wearable technology. Using feedback from peers to improve design	xx	XX	cardinal compass Explaining how my program fits the design criteria and how it would be useful as part of a navigation tool. Developing an awareness of sustainable design. Identifying key industries that utilise 3D CAD modelling and explain why.
						Describing how the product concept fits the client's request and how it will benefit the customers.
						Explaining the key functions in my program, including any additions.
						Explaining how my program fits the design criteria and how it would be useful as part of a navigation tool.
						Explaining the key functions and features of my navigation tool to the client as part of a product concept pitch.
						Demonstrating a functional program as part of a product concept.



Technical	xx	XX	To understand that, in	XX	XX	To know that
knowledge			programming, a 'loop' is			accelerometers can detect
			code that repeats			movement.
			something again and again			
			until stopped.			To understand that
						sensors can be useful in
			To know that a micro:bit is			products as they mean the
			a pocket-sized, codeable			product can function
			computer.			without human input.
			To know that a simulator is			
			able to replicate the			
			functions of an existing			
			piece of technology.			