





	EYFS area linked to subject	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	EYFS-Skills-and- Progression-Map-2023- 006.pdf (moorside- academy.co.uk)	Hold and use drawing tools in different ways to create different lines and marks. Create marks by responding to different stimulus such as music as a group. Overlap shapes to create new ones. Use mark making to replicate texture. Look carefully to make an observational drawing. Complete a continuous line drawing.	Create marks by using a map as a stimulus for drawing (draw a familiar journey Overlap shapes to create new ones.	Use shapes identified within in objects as a method to draw. Create tone by shading. Achieve even tones when shading. Make texture rubbings. Create art from textured paper. Hold and use a pencil to shade. Tear and shape paper. Use paper shapes to create a drawing. Use drawing tools to take a rubbing. Make careful observations to accurately draw an object. Create abstract compositions to draw more expressively. PP Use pencils of different grades to shade and add tone.	xx	Analyse an image that considers impact, audience and purpose. Draw the same image in different ways with different materials and techniques. Make a collagraph plate. Make a collagraph print. Develop drawn ideas for a print. Combine techniques to create a final composition. Decide what materials and tools to use based on experience and knowledge. MMVH Use symbolism as a way to create imagery. Combine imagery into unique compositions. Achieve the tonal technique called chiaroscuro. Make handmade tools to draw with.	xx





			Hold a pencil with		Use shareed to erects	
					Use charcoal to create	
			varying pressure to		chiaroscuro effects	
			create different			
			marks.			
			Use observation and			
			sketch objects			
			quickly.			
			Draw objects in			
			proportion to each			
			other.			
			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 wax resist			
			background.			
			3			
			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 colour		Light and dark	Portraits	
Painting and	xx	Combine primary coloured	XX	Mix a tint and a shade by	Develop a drawing	XX
mixed media		materials to make		adding black or white.	into a painting.	
IIIIACU IIICUIU				adding black of willte.	into a painting.	
		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 .				





T	T	T =
Choose suitable sized paint	Apply paint using	Experiment with
brushes.	different techniques eg.	materials and create
	stippling, dabbing,	different backgrounds
Clean a paintbrush to	washing.	to draw onto.
change colours.	3	
	Choose suitable painting	Use a photograph as a
Print with objects, applying	tools.	starting point for a
	tools.	
a suitable layer of paint to		mixed-media artwork.
the printing surface.	Arrange objects to create	
Overlap paint to mix new	a still life composition.	Take an interesting
colours.		portrait photograph,
	Plan a painting by	exploring different
Use blowing to create a	drawing first.	angles.
paint effect.		
F	Organise painting	Adapt an image to
Make a paint colour darker	equipment	create a new one.
· ·		create a new one.
or lighter (creating shades)	independently, making	
in different ways eg. adding	choices about tools and	Combine materials to
water, adding a lighter	materials.	create an effect.
colour.		
		Choose colours to
LIC		represent an idea or
Mix a variety of shades of a		atmosphere.
secondary colour.		
secondary coroan.		Develop a final
Make choices about		composition from
amounts of paint to use		sketchbook ideas.
when mixing a particular		
colour.		
Match colours seen around		
them.		
Create texture using		
different painting tools.		
Make textured paper to use		
Make textured paper to use		
in a collage.		
Choose and shape collage		
materials eg cutting,		
tearing.		
Compose a collage,		
arranging and overlapping		
arranging and overlapping		





		pieces for contrast and				
		effect.				
		Add painted detail to a				
		collage to enhance/improve				
		it				
	Paper play/clay houses		Abstract space and			Interactive
	, , , , , , , , , , , , , , , , , , ,		shape			installation/ Making
			-			memories
Sculpture	Roll and fold paper.	xx	Join 2D shapes to	XX	XX	Make an explosion
and 3D			make a 3D form.			drawing in the style of
	Cut shapes from paper					Cai Guo-Qiang,
	and card.		Join larger pieces of			exploring the effect of
			materials, exploring			different materials.
	Cut and glue paper to		what gives 3D shapes			T
	make 3D structures.		stability.			Try out ideas on a
	Decide the best way to		Shape card in			small scale to assess their effect.
	glue something.		different ways eg.			their effect.
	gide sometimig.		rolling, folding and			Use everyday objects
	Create a variety of shapes		choose the best way			to form a sculpture.
	in paper, eg spiral, zig-zag.		to recreate a drawn			to rorm a sourpearer
	F-F-7-8-F-7-8-6		idea.			Transform and
	Make larger structures					manipulate ordinary
	using newspaper rolls.		Identify and draw			objects into sculpture
			negative spaces.			by wrapping,
	СН					colouring, covering
	Smooth and flatten clay.		Plan a sculpture by			and joining them.
			drawing.			
	Roll clay into a cylinder or					Try out ideas for
	ball.		Choose materials to			making a sculpture
	NA-1 d:ff		scale up an idea.			interactive.
	Make different surface marks in clay.		Create different joins			Plan an installation
	illarks ill clay.		in card eg. slot, tabs,			proposal, making
	Make a clay pinch pot.		wrapping.			choices about light,
	wake a clay pilleri pot.		таррінь.			sound and display.
	Mix clay slip using clay and		Add surface detail to			
	water.		a sculpture using			MM
			colour or texture.			Translate a 2D image
	Join two clay pieces using					into a 3D form.
	slip.		Display sculpture			
						Manipulate cardboard
	Make a relief clay					to create 3D forms
	sculpture.					(tearing, cutting,





	Use hands in different ways as a tool to					folding, bending, ripping).
	manipulate clay.					
	Use clay tools to score					Manipulate cardboard to create different
	clay.					textures.
	ciay.					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
		-		Fabric of nature		
Craft and	xx	Draw a map to illustrate a	XX	Use a sketchbook to	xx	Create a
Design		journey.		research a subject using		photomontage.
		Constant of Characteristics		different techniques and		Constant of the
		Separate wool fibres ready to make felt.		materials to present ideas.		Create artwork for a design brief. Use a
		to make left.		lueds.		camera or tablet for
		Lay wool fibres in opposite		Construct a new paper		photography.
		directions to make felt.		material using paper,		, , , ,
				water and glue		Identify the parts of a
		Roll and squeeze the felt to				camera.
		make the fibres stick		Use symbols to reflect		
		together.		both literal and		Take a macro photo,
		Add describes Calaba		figurative ideas.		choosing an
		Add details to felt by twisting small amounts of		Produce and select an		interesting composition.
		wool.		effective final design.		composition.
		W661.		encenve mar design.		Manipulate a
		Choose which parts of their		Make a scroll.		photograph using
		drawn map to represent in				photo editing tools.
		their 'stained glass'.		Make a zine.		
						Use drama and props
		Overlap cellophane/tissue		Use a zine to present		to recreate imagery.
		to create new colours.		information.		Taka a nartrait
		Draw a design onto a		FN		Take a portrait photograph.
		printing polystyrene tile		Select imagery and use		photograph.
		without pushing the pencil		as inspiration for a		Use a grid method to
		right through the surface.		design project.		copy a photograph
						into a drawing.





	T		I	I	1	T	1
			Apply paint or ink using a		To know how to make a		
			printing roller.		mood board.		
			Smooth a printing tile		Recognise a theme and		
			evenly to transfer an image.		develop colour palettes		
			_		using selected imagery		
			Try out a variety of ideas for		and drawings.		
			adapting prints into 2D or		and an animager		
			3D artworks.		Draw small sections of		
			35 ditworks.		one image to docs on		
					colours and texture.		
					colours and texture.		
					Barrelan altana di anal		
					Develop observational		
					drawings into shapes		
					and pattern for design.		
					Transfer a design using a		
					tracing method.		
					_		
					Make a repeating		
					pattern tile using cut and		
					torn paper shapes.		
					torri paper snapes.		
					Use glue as an		
					_		
					alternative batik		
					technique to create		
					patterns on fabric.		
					Use materials, like glue,		
					in different ways		
					depending on the		
					desired effect.		
					Paint on fabric.		
					Wash fabric to remove		
					glue to finish a		
					decorative fabric piece		
Ka sudada :		Thurst all act Aut and	Thurston hout Automal Design	Aut fue us the sus at the		Autiata aua influencia d	Autista ana influence d
Knowledge		Throughout Art and	Throughout Art and Design	Art from the past can	Art from the past can	Artists are influenced	Artists are influenced
of artists		Design children will learn	children will learn that;	give us clues about	give us clues about what	by what is going on	by what is going on
		that;		what it was like to	it was like to live at that	around them; for	around them; for
			Some artists are influenced	live at that time.	time.	example culture,	example culture,
		Some artists are	by things happening around			politics and	politics and
		influenced by things	them.	The meanings we	The meanings we take	technology.	technology.
		happening around them.		take from art made	from art made in the		
		5		in the past are			
	I	l .	l .	the past are	l .	l	1





·						
	Some artists create art to	Some artists create art to	influenced by our	past are influenced by	Artists 'borrow' ideas	Artists 'borrow' ideas
	make people aware of	make people aware of good	own ideas.	our own ideas.	and imagery from	and imagery from
	good and bad things	and bad things happening in			other times and	other times and
	happening in the world	the world around them.	Designers can make	Designers can make	cultures to create new	cultures to create new
	around them.		beautiful things to	beautiful things to try	artworks.	artworks.
		Sometimes artists	try and improve	and improve people's		
	Sometimes artists	concentrate on how they	people's everyday	everyday lives.	How an artwork is	How an artwork is
	concentrate on how they	are making something	lives.	, ,	interpreted will	interpreted will
	are making something	rather than what they		How and where art is	depend on the life	depend on the life
	rather than what they	make.	How and where art is	displayed has an effect	experiences of the	experiences of the
	make.	···airei	displayed has an	on how people interpret	person looking at it.	person looking at it.
	make.	Artists living in different	effect on how people	it.	person looking at it.	person looking at it.
	Artists living in different	places at different times can	interpret it.	16.	Artists can use	Artists can use
	places at different times	be inspired by similar ideas	interpretit.	Artists have different	symbols in their	symbols in their
	can be inspired by similar	or stories.	Artists have different	materials available to	artwork to convey	artwork to convey
	· ·	or stories.			•	•
	ideas or stories.	Art can be figured to a	materials available to	them depending on	meaning.	meaning.
		Art can be figurative or	them depending on	when they live in history.		
	Art can be figurative or	abstract.	when they live in	Artists can make their	Sometimes artists add	Sometimes artists add
	abstract.		history.	own tools.	extra meaning to what	extra meaning to what
		Artists choose materials	Artists can make		they create by working	they create by working
	Artists choose materials	that suit what they want to	their own tools.	Artists experiment with	in places where they	in places where they
	that suit what they want	make.		different tools and	don't have permission	don't have permission
	to make.		Artists experiment	materials to create	to work.	to work.
		Illustrators use drawn lines	with different tools	texture.		
	Illustrators use drawn lines	to show how characters	and materials to		Artists use self-	Artists use self-
	to show how characters	feel.	create texture.	Artists can work in more	portraits to represent	portraits to represent
	feel.			than one medium.	important things	important things
		Artists try out different	Artists can work in		about themselves.	about themselves.
	Artists try out different	combinations of collage	more than one	Artist make decisions		
	combinations of collage	materials to create the	medium.	about how their work	Artists create works	Artists create works
	materials to create the	effect they want.		will be displayed.	that make us question	that make us question
	effect they want.	•	Artist make decisions		our beliefs.	our beliefs.
	,	Artists can use the same	about how their	Artists choose what to		
	Artists can use the same	material (felt) to make 2D	work will be	include in a composition,	Artists find inspiration	Artists find inspiration
	material (felt) to make 2D	or 3D artworks.	displayed.	considering both what	in other artist's work,	in other artist's work,
	or 3D artworks.			looks good together and	adapting and	adapting and
		Artists and designers can	Artists choose what	any message they want	interpreting ideas and	interpreting ideas and
	Artists and designers can	create work to match a set	to include in a	to communicate.	techniques to create	techniques to create
	create work to match a set	of requirements; a 'brief' or	composition,	to communicate.	something new.	something new.
	of requirements; a 'brief'	'commission'.	considering both	Designers collect visual	Joineumig new.	Joineumig new.
	or 'commission'.	COMMISSION .	what looks good	ideas from a wide range	Art can be a form of	Art can be a form of
	or commission.			of sources, sometimes		
			together and any	,	protest.	protest.
			message they want	collecting these as a	Aution cut - t-II	Autiataa e et e e ell
			to communicate.	mood board.	Artists use art to tell	Artists use art to tell
					stories about things	stories about things
					that are important to	that are important to





		Bardana and India	Author and decimen	there testings	there testings
		Designers collect	Artists and designers	them; looking at	them; looking at
		visual ideas from a	sometimes choose	artworks from the past	artworks from the past
		wide range of	techniques based on the	can reveal thoughts	can reveal thoughts
		sources, sometimes	time and money	and opinions from that	and opinions from that
		collecting these as a	available to them.	time.	time.
		mood board.			
			Artists use drawing to	Art sometimes creates	Art sometimes creates
		Artists and designers	plan ideas for work in	difficult feelings when	difficult feelings when
		sometimes choose	different media.	we look at it	we look at it
		techniques based on	different media.	We look at it	WE TOOK at It
				Autists sous shares	Ati-ata
		the time and money		Artists can choose	Artists can choose
		available to them.		their medium to	their medium to
				create a particular	create a particular
		Artists use drawing		effect on the viewer.	effect on the viewer.
		to plan ideas for			
		work in different		Artists can combine	Artists can combine
		media.		materials; for example	materials; for example
				digital imagery with	digital imagery with
				paint or print.	paint or print.
				paint or print.	paint of print.
				Art can be interactive.	Art can be interactive.
				Art can be interactive;	Art can be interactive;
				the viewer becomes	the viewer becomes
				part of it, experiencing	part of it, experiencing
				the artwork with more	the artwork with more
				than one of the	than one of the
				senses.	senses.
				Artists use techniques	Artists use techniques
				like chiaroscuro to	like chiaroscuro to
				create dramatic light	create dramatic light
				and shade when	and shade when
				drawing or painting.	drawing or painting.
				drawing or painting.	drawing or painting.
				At.:	Autinto non
				Artists can use	Artists can use
				materials to respond	materials to respond
				to a feeling or idea in	to a feeling or idea in
				an abstract way.	an abstract way.
				Artists take risks to try	Artists take risks to try
				out ideas; this can lead	out ideas; this can lead
				to new techniques	to new techniques
				being developed.	being developed.
				Joing acreiopea.	Sania developed.
				Artists can make week	Artists can make work
				Artists can make work	
				by collecting and	by collecting and
				combining ready-	combining ready-made



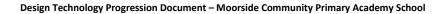


					made objects to create 'assemblage'. Artforms are always evolving as materials and techniques change over time.	objects to create 'assemblage'. Artforms are always evolving as materials and techniques change over time.
Evaluating and analysing	Describe and compare features of their own and others' artwork. Evaluate art with an understanding of how art can be varied and made in different ways and by different people. Explain their ideas and opinions about their own and others' artwork, beginning to recognise the stories and messages within and showing an understanding of why they may have made it. Begin to talk about how they could improve their own work. Talk about how art is made.	Describe and compare features of their own and others' artwork. Evaluate art with an understanding of how art can be varied and made in different ways and by different people. Explain their ideas and opinions about their own and others' artwork, beginning to recognise the stories and messages within and showing an understanding of why they may have made it. Begin to talk about how they could improve their own work. Talk about how art is made.	Confidently explain their ideas and opinions about their own and others' artwork, with an understanding of the breadth of what art can be and that there are many ways to make art. Discuss and begin to interpret meaning and purpose of artwork, understanding how artists can use art to communicate. Begin to carry out a problem-solving 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	Confidently explain their ideas and opinions about their own and others' artwork, with an understanding of the breadth of what art can be and that there are many ways to make art. Discuss and begin to interpret meaning and purpose of artwork, understanding how artists can use art to communicate. Begin to carry out a problem-solving 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.	Discuss the processes used by themselves and by other artists, and describe the particular outcome achieved. Consider how effectively pieces of art express emotion and encourage the viewer to question their own ideas Explain how art can be created to cause reaction and impact and be able to consider why an artist chooses to use art in this way. 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.	Discuss the processes used by themselves and by other artists, and describe the particular outcome achieved. Consider how effectively pieces of art express emotion and encourage the viewer to question their own ideas Explain how art can be created to cause reaction and impact and be able to consider why an artist chooses to use art in this way. 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	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	independently during the planning and making process. Generate ideas from a range of stimuli, using research and evaluation of techniques to develop their ideas and plan more	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	Develop ideas more independently from their own research. Explore and record their plans, ideas and evaluations to develop their ideas towards an
	their ideas and plan more purposefully for an outcome.	ideas and plan more purposefully for an outcome.	purposefully for an outcome		Draw upon their experience of creative work and their research to develop their own starting points for creative outcomes.	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







	EYFS area linked to	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	subject						
			T	Structures	1		
		Constructing a windmill	Baby bear's chair	Constructing a castle	Pavilions		Playgrounds
Design	EYFS-Skills-and- Progression-Map-2023- 006.pdf (moorside- academy.co.uk)	Learning the importance of a clear design criteria including individual preferences and requirements in a design.	Generate and communicate ideas using sketching and modelling. Learning about different types of structures, found in natural world and in everyday objects.	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 on CAD	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	Designing a playground featuring a variety of different structures, giving 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.	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 materials 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. Testing the strength of own structures. Identifying the weakest part of a structure. Evaluating the strength, stiffness and stability of own structure.	Evaluating own work and the work of others based on the aesthetic of the finished product and in comparison to the original design. Suggesting points for modification of the individual designs.	Evaluating structures made by the class. Describing what characteristics of a design and construction made it the most effective. Considering effective and ineffective designs	xx	Improving a design plan based on peer evaluation. Testing and adapting a design to improve it as it is developed. Identifying what makes a successful 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 know that a 'stiff' structure or material is	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.





	T		one which does not				
			bend easily				
			Deria casily	Mechanisms	l	I	
			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. 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.	xx	Designing a shape that reduces air resistance. Drawing a net to create a structure from. Choosing shapes that increase or decrease speed as a result of air resistance. Personalising a design.	Designing a pop-up book which uses a mixture of structures and mechanisms. Naming each mechanism, input and output accurately. Storyboarding ideas for a book.	xx
Make		XX	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. Cutting and assembling components neatly.	XX	Measuring, marking, cutting and assembling with increasing accuracy. Making a model based on a chosen design.	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	FGW- Evaluating different designs. Testing and adapting a design	xx	Evaluating the speed of a final product based on: the effect of shape on speed and the accuracy of	Evaluating the work of others and receiving feedback on own work.	xx





	1		NANA Frankration and			Consessing maints for	
			MM- Evaluating own		workmanship on	Suggesting points for	
			designs against design		performance.	improvement.	
			criteria.				
			Using peer feedback to				
			modify a final design.				
Technical		XX	FGW- To know that	XX	To understand that all	To know that	XX
knowledge			different materials	7	moving things have	mechanisms control	7.0.
Kilowicage			have different		kinetic energy.	movement.	
					killetic ellergy.	movement.	
			properties and are				
			therefore suitable for		To understand that	To understand that	
			different uses.		kinetic energy is the	mechanisms can be	
					energy that something	used to change one	
			MM- To know that		(object/person) has by	kind of motion into	
			mechanisms are a		being in motion.	another.	
			collection of moving				
			parts that work		To know that air	To understand how to	
			together as a machine		resistance is the level	use sliders, pivots and	
			to produce movement.		of drag on an object as	folds to create paper-	
			to produce movement.				
					it is forced through the	based mechanisms.	
			To know that there is		air.		
			always an input and				
			output in a mechanism.		To understand that the		
					shape of a moving		
			To know that an input		object will affect how		
			is the energy that is		it moves due to air		
			used to start something		resistance.		
			_		resistance.		
			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.				
			on a pivot.				
			To loop, that a links of				
			To know that a linkage				
			mechanism is made up				
			of a series of levers.				
			Cool	king and Nutrition			
		Smoothies		Eating Seasonally		Developing a recipe	
Design		Designing smoothie carton	xx	Designing a recipe for a	XX	Adapting a traditional	XX
		packaging by-hand.		savoury tart.		recipe, understanding	
	I	L	I		1		l





F	1			T	1		
						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 existing recipes to inform ingredient choices.	
Make		Chopping fruit and vegetables safely to make a smoothie.	хх	Following the instructions within a	XX	Cutting and preparing vegetables safely.	хх
				recipe.			
		Juicing fruits safely to make a		T		Using equipment	
		smoothie.		Tasting seasonal ingredients.		safely, including knives, hot pans and	
				ingredients.		hobs.	
				Selecting seasonal		11005.	
				ingredients.		Knowing how to avoid	
				g. curentor		cross-contamination.	
				Peeling ingredients			
				safely.		Following a step by	
						step method carefully	
				Cutting safely with a		to make a recipe.	
F		— · · · · · · · · · · · · · · · · · · ·		vegetable knife.			
Evaluate		Tasting and evaluating different food combinations.	XX	Establishing and using	XX	Identifying the nutritional differences	Xx
		unterent 1000 combinations.		design criteria to help test and review dishes.		between different	
		Describing appearance, smell		test and review disties.		products and recipes.	
		and taste.		Describing the benefits		p. oddets dild recipes.	
		Suggesting information to be		of seasonal fruits and		Identifying and	
		included on packaging.		vegetables and the		describing healthy	
				impact on the		benefits of food	
		Comparing their own smoothie		environment.		groups	
		with someone else's.					
				Suggesting points for			
				improvement when			
				making a seasonal tart.			





			Textiles			
Design	Using a template to create a design for a puppet.	xx	xx	xx	xx	Designing a waistcoat in accordance to a specification linked to set of design criteria. Annotating designs, to explain their decisions.
Make	Cutting fabric neatly with scissors. Using joining methods to decorate a puppet. Sequencing the steps taken during construction.	XX	XX	XX	xx	Using a template when cutting fabric to ensure they achieve the correct shape. Using pins effectively to secure a template to fabric without creases or bulges. 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.





Evaluate	Reflecting on a finished product, explaining likes and dislikes.	хх	xx	xx	xx	Reflecting on their work continually throughout the design, make and evaluate process.
		Electrica	al Systems (KS2 only)	1	I .	process.
				Torches	Doodlers	
Design	xx	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.	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. Developing design criteria that clarifies the target user.	xx
Make	XX	xx	XX	Making a torch with a working electrical circuit and switch. Using appropriate equipment to cut and attach materials. Assembling a torch according to the design and success criteria.	Altering a product's form and function by tinkering with its configuration. Making a functional series circuit, incorporating a motor. Constructing a product with consideration for the design criteria. Breaking down the construction process into steps so that others can make the product.	XX
Evaluate	xx	xx	хх	Evaluating electrical products.	Carry out a product analysis to look at the purpose of a product along with its	xx





				Tasking and soulcast	atura natha a mind	 1
				Testing and evaluating	strengths and	
				the success of a final	weaknesses.	
				product.		
					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.	
					product.	
					Peer evaluating a set	
					of instructions to build	
					a product	
Technical	xx	xx	XX	To understand that	To know that series	XX
knowledge				electrical conductors	circuits only have one	
				are materials which	direction for the	
				electricity can pass	electricity to flow.	
				through.	•	
					To know when there is	
				To understand that	a break in a series	
				electrical insulators	circuit, all components	
				are materials which	turn off.	
				electricity cannot pass		
				through.	To know that an	
					electric motor	
				To know that a battery	converts electrical	
				contains stored	energy into rotational	
				electricity that can be	movement, causing	
				used to power	the motor's axle to	
				products.	spin.	
				p. 5 3 4 6 6 5 .		
				To know that an	To know a motorised	
				electrical circuit must	product is one which	
				be complete for	uses a motor to	
				electricity to flow.	function.	
				To know that a switch		
				can be used to		
				complete and break an		
				electrical circuit.		
1					1	





			Digital World (KS2)			
			Wearable Technology			Navigating the world
Design	XX	XX	Problem solving by suggesting which features on a micro:bit might be useful and justifying my ideas. Drawing and manipulating 2D shapes, using computer-aided design, to produce a point of sale badge. Developing design ideas through annotated sketches to create a product concept. Developing design criteria to respond to a design brief.	XX	xx	Writing a design brief from information submitted by a client. Developing design criteria to fulfil the client's request Considering and suggesting additional functions for my navigation tool Developing a product idea through annotated sketches Placing and manoeuvring 3D objects, using CAD Changing the properties of, or combine one or more
Make	xx	XX	Following a list of design requirements. Writing a program to control (button press) and/or monitor (sense light) that will initiate a flashing LED algorithm.	XX	XX	3D objects, using CAD Considering materials and their functional properties, especially those that are sustainable and recyclable (for example, cork and bamboo). 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	xx	XX	Explaining how my
			evaluating wearable technology.			program fits the design criteria and
						how it would be useful
			Using feedback from peers to improve			as part of a navigation tool.
			design			1001.
						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'			accelerometers can
			is code that repeats			detect movement.
			something again and			
			again until stopped.			To understand that
						sensors can be useful
			To know that a			in products as they
			micro:bit is a pocket-			mean the product can
			sized, codeable			function without
			computer.			human input.
			To know that a			
			simulator is able to			
			replicate the functions			
			of an existing piece of			
			technology.			