D&T Long Term Plan 2021 – 2022

Lessons to run over 9-week blocks, alternating Art and D&T.

KS1 classes will have a 50 min lesson each week. 9 in total.

KS2 classes will have a lesson every third week. They will have 3 x 2.5 hr lessons in total.

	Reception	Yr 1	Yr 2
D&T		Freestanding structures	Sliders and levers
Topic link		Our local area	
NC		To design purposeful,	To design purposeful, functional,
		functional, appealing	appealing products for themselves
		products for themselves	and other users based on design
		and other users.	criteria.
		To generate, develop,	To select from and use a range of
		model and communicate	tools and equipment to perform

	their ideas through talking and drawing. To select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]. To select from and use a wide range of materials and components, including construction materials. To build structures, exploring how they can be made stronger, stiffer and more stable	practical tasks [for example, cutting, joining and finishing]. To explore and evaluate a range of existing products.
Skills	To select the best material for a purpose. To use joining techniques to strengthen and create shape and form. To evaluate a structure based on its stability.	To use rulers and scissors with increasing accuracy. To use a hole punch and split pins (or pivoting device) to create movement. To select form the most appropriate materials.

	To use cut and fold with some accuracy.	To use finishing techniques to make a product appealing.	
People of			
interest			
Vocab	Cut, stable, strength, corner, structure, shelter, stiff, design, evaluate.	Pivot, slider, lever, design, evaluate, finish, joining.	
Outcome	A freestanding model of an animal shelter.	A card for someone with moving parts.	
Equipment &	Paper	A4 Card	
Materials	Card	Paper	
	Scissors	Split pins	
	Pre-cut small fold of card	Pre-cut strips of card for levers	
	for joints	Scissors	
	Pre cut strips of paper for	Masking tape	
	sides of shelter	Coloured pencils	
	Tissue paper	Rulers	
	Masking tape		
	Glue sticks		
	Images of shelters		
	Paper straws		

	Wool String Wooded Iolly sticks	
Differentiation	Photographs, word banks, extra or less information in labelling. TA support and modelled writing/drawing. Use of icons//symbols to gauge their feelings about their learning.	Photographs, word banks, support using scissors, ruled lines as cutting guides. Printed images to colour. Split pins for more able to create extra moving parts using different techniques. Use of icons//symbols to gauge
Lesson 1	Look at pre-existing shelters and discuss their use. Complete the D&T criteria sheet and draw their shelter, labelling if able.	their feelings about their learning. Look at a series of books with moving parts and begin to plan our card using a criteria template. Discuss who it could be for and how you will show that.
Lesson 2	Introduce how to join two pieces of card together using the smaller folded card pieces.	Introduce how to construct a lever. CHN begin to make their card with a lever.

Lesson 3	CHN will create a structure using card strips and folded joins. Model how to create wall supports suing lolly sticks, glue and masking tape. CHN to build wall supports.	Continue making.
Lesson 4	Model how to use tissue paper to create walls and a roof. Recap previous joining techniques.	Introduce using a split pin to increase movement options. CHN to incorporate this into their card.
Lesson 5	Continue making. Focus on making the structures stronger and more stable.	Finish card with moving parts
Lesson 6	Evaluate structure using criteria template.	Evaluate Card using the template
Lesson 7		
Lesson 8		
Lesson 9		

	Reception	Yr 1	Yr 2
D&T		Wheels and axles /	Templates and joining / preparing
		Preparing fruit and veg	fruit and veg
Topic link		Cars	
NC		To use the basic principles of a healthy and varied diet to prepare dishes.	To use the basic principles of a healthy and varied diet to prepare dishes.
		To understand where food comes from.	To understand where food comes from.
		To design purposeful, functional, appealing products for themselves and other users based on design criteria.	To select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing].
		To generate, develop, model and communicate their ideas through	To explore and evaluate a range of existing products.
		talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.	To evaluate their ideas and products against design criteria.

	To select from and use a wide range of	To build structures, exploring how they can be
	materials and components, including	made stronger, stiffer and more stable.
	construction materials, textiles and	
	ingredients, according to their	
	characteristics.	
	To select from and use a range of tools	
	and equipment to perform practical	
	tasks [for example, cutting, shaping,	
	joining and finishing].	
	Jan 9 and miles	
	To explore and use mechanisms [for	
	example, levers, sliders, wheels and	
	axles], in their products.	
CI III	-	
Skills	To design a moving vehicle	Researching existing products
	To plan and design a	Identifying a target audience and
	moving vehicle for a	designing a product for them
	purpose	Threading a needle
	To cut, assemble and join	Choosing the best materials for a
	pieces together to create a	product
	product	Creating templates from paper
	To understand how wheels	and card
	and axles make things	Using scissors with accuracy
	move	Learning joining techniques for
	To use scissors with some	
		paper and fabric
	accuracy	

	To evaluate our own and other children's products	Sewing two pieces of fabric together Evaluating and making changes based on feedback
People of interest		
Vocab	Vehicle Wheel Axle Chassis Assemble Join Fixed Free Friction	Design Template Criteria Pattern Decorate Mock-up Fabric Joining finishing
Outcome	Creating a car that moves using an axle.	Creating a puppet based on a fairy tale.
Equipment & Materials	Cardboard Scissors Masking tape	Assorted fabrics Metal and plastic needles Needle threaders

	Pre-cut circles and MDF wheels Pre-cut Dowel rods Paper and plastic straws	Embroidery, wool and cotton thread Paper and scissors for templates Single hole punches Hot glue gun
Differentiation	Pre-cut and partially assembled sections.	Larger / smaller needles.
	Pre-selected parts within a	Hot glue to replace sewing.
	pack to be assembled.	Needle threaders.
	Diagrams to support assembling.	Thicker / thinner fabrics.
		Simplified / more complex
	TA to support less abled CHN	templates to follow.
		Extra details to be cut, assembled
		and sewn/ glued on.
Lesson 1	Researching and dissecting	Researching pre-existing puppets
	cars and toys with axles.	and fabric-based toys. Look at
	Completing their design	different templates.
	criteria.	Completing their design criteria.

Lesson 2	Practical skills: cutting, joining assembling	Cutting a range of paper templates and joining using glue and split pin fasteners.
Lesson 3	Choosing the best materials based on our design and beginning to cut and shape our parts	Designing a template for their puppet, using the criteria sheet from the first lesson.
Lesson 4	Using axles and wheels Adjusting wheels and axles (adding more/less/changing size etc. Discussing what happens with different sizes.	Using the previous paper template to draw around it onto two pieces of fabric, ready to sew in the later lessons.
Lesson 5	Finishing the chassis/ decorating	Sewing
Lesson 6	Decorating and completing	Sewing and completing
Lesson 7	Evaluation form, presenting their vehicles and giving per feedback.	Evaluation form and making short plays to be performed and recorded.
Lesson 8	Preparing fruit and veg.	Preparing fruit and veg. Naming and using kitchen utensils on plasticine fruit and veg.

	Naming and using kitchen utensils on plasticine fruit and veg.	Looking at healthy diet pyramids.
Lesson 9		

Art and D&T Long Term Plan

Each block to run over 9 weeks.

KS2 will have a lesson every third week. 3 lessons in total.

KS1 will have a lesson each week. 9 in total.

	Yr 3	Yr 4	Yr 5	Yr 6
D & T				
Topic	Electrical	Mechanisms:	Textiles: stitching	Textiles: Fabric Patterns
	circuits	linkages and levers		
NC	To understand and use electrical systems in their products [for	To use research and develop design criteria to inform the design of	To select from and use a wider range of materials and components, including	To select from and use a wider range of materials and components, including construction materials, textiles and
	example, series circuits incorporating switches,	products that are fit for purpose, aimed at	construction materials, textiles and ingredients, according to	ingredients, according to their functional properties and aesthetic qualities.

	bulbs, buzzers and	particular individuals or	their functional properties and	
	motors.	groups.	aesthetic qualities.	To evaluate their ideas and products against their own design criteria and
	To apply their understanding of how	To select from and use a wider range of tools and	To investigate and analyse a range of existing products.	consider the views of others to improve their work.
	to strengthen, stiffen and reinforce structures	equipment to perform practical tasks [for example,		To investigate and analyse a range of
	To investigate and analyse a range of	cutting, shaping, joining and finishing], accurately.	To apply their understanding of how to strengthen, stiffen and reinforce more complex	existing products.
	existing products.	To evaluate their ideas and products against their own	structures.	To apply their understanding of how to strengthen, stiffen and reinforce more
	To evaluate their ideas and products against	design criteria and consider the views of others to		complex structures.
	their own design criteria and consider the views	improve their work.		
	of others to improve their work	To apply their understanding of how to strengthen, stiffen and		
	To select from and use a wider range of tools and	reinforce more complex structures.		
	equipment to perform practical tasks [for example, cutting,			
	shaping, joining and finishing], accurately			
Skills	To understand	To understand	To thread a needle and	To thread a needle and put a
	how a simple electrical circuit	how a linkage	put a knot in the thread.	knot in the thread. To use a running stitch.
	works.	connects two parts together, so they	To use a running	To use a running stitch.
	WOTKS.	can move or pivot.	stitch.	

To know that To understand To use a running stitch To use a running stitch to more bulbs how a lever is to sew two pieces of sew two pieces of fabric would also used to move a fabric together. together. To use a whip (or over) equal more linkage. To use a whip (or power from To plan and design over) stitch. stitch. batteries. a product for a To design and plan a To use 2D shapes to create a To plan, design specific purpose. pouch made from fabric pattern. To use scissors and To design and plan a bag and make a light fabric. hole punch tools made from fabric. box cover, using To use stitching scissors to with accuracy. techniques to create a To use stitching techniques To understand pouch. create internal to create a bag. how these skills To evaluate a product. To evaluate a product. cuts. To understand are used in other that an areas. electrical current needs to go in a certain direction. To learn simple joining and strengthening techniques to

	create their light			
	box.			
People of				
interest				
Vocab	Bulb	Linkage	Fabric	Fabric
	Circuit	Lever	Stitch	Stitch
	Battery	Hole punch	Sew	Sew
	Switch	Design	Running stitch	Running stitch
	Crocodile clip	Designer	Whip stitch (or over-	Whip stitch (or over-stitch)
	Current	Animation	stitch)	Needle
	Flow	Evaluate	Needle	Thread
	Positive		Thread	Pouch
	Negative		Pouch	Design
			Design	Evaluate
			Evaluate	
Outcome	To use a working	To use linkages	To use simple stitching	To create a fabric pattern to
	electrical circuit	and levers to	techniques to create a	design and make a simple
	to make a light	create Shadow	pouch or small bag.	carrier bag.
	box.	puppets based on		
		the story of The		
		Little Mermaid.		

Equipment &	Bulbs	Cardboard	Fabric	A3 paper
Materials	Bulb holders	Scissors	Needles	Rulers
	Batteries	Masking tape	Thimbles	Fabric
	Crocodile clips	Paper straws	Thread	Needles
	Cardboard	Split pins	Fabric scissors	Thimbles
	Masking tape	Single hole	Buttons	Thread
	Felt tips	punches	Needle threaders	Fabric scissors
	Electrical			Buttons
	switches			Zips
				Velcro
				Needle threaders
Differentiation	Mixed ability	Pre-made puppet	Different sized	More complex bag designs /
	groups.	sections to cut out.	needles.	multiple shapes.
	TA to support less abled.	Support using scissors.	Needle threaders.	Different sized needles.
			Embroidery fabrics/	Needle threaders.
	Less/ more	TA support for	thread / needles.	
	bulbs / batteries	specific needs.		Embroidery fabrics/ thread /
	/ switches.		Use of buttons to	needles.
		Pre-cut holes using	close.	
		hole punch tool.		More / less complex ways of
			Use of varied stitching.	closing (zips etc.)

	Pre- drawn circuit diagram to follow. Pre-made shell structure. Pre-made designs. Support using scissors to cut	Simplified / more complex moving parts.	Stitching on the inside of the fabric.	Use of varied stitching. Stitching on the inside of the fabric.
Lesson 1 Design	out designs. Introduce all elements of the circuit. Take apart a working torch. Safety discussion (use of batteries-especially not connecting clips	Introduce D&T and how it is about designing and creating a product with a purpose. Show shadow puppet version of Three Little Pigs and discuss how	Introduce the design criteria and evaluation process of D&T. Look at some pouches and discuss how they are made, where the seams are (inside) and for what purpose. Run through safety procedures with	Introduce the design criteria and evaluation process of D&T. Look at some bags and discuss how they are made, where the seams are (inside) and for what purpose. Show some fabric patterns and explain how they help create a bag. CHN to use A3

Lesson 2	to both positive and negative points). Experiment with creating a circuit. Design lightbox cover.	the puppets were made. Read the story of The Little Mermaid and discuss how we could create a shadow puppet version. Look at how linkages and levers work and begin designing their puppet. Complete design criteria. Begin making	sewing (needles/ fabric scissors). Practice tying knots in wool and then move to tying knots in cotton and stick them into books. Practice threading needles (differentiate with needle size/ thread and wool thickness). Introduce a running stitch and CHN will practice on small swatches of fabric. Introduce a whip stitch and practice. Design and plan their pouches. Pouch making	paper and rulers to make their own and stick into books. Run through safety procedures with sewing (needles/ fabric scissors). Practice tying knots in wool and then move to tying knots in cotton and stick them into books. Practice threading needles (differentiate with needle size/ thread and wool thickness). Introduce a running stitch and CHN will practice on small swatches of fabric. Introduce a whip stitch and practice. Design and plan their bags. Bag making.
Make	circuit.			

				Introduce zips/ velcro/ buttons and show how they are all attached.
Lesson 3	Increase bulbs/	Complete making	Pouch making /	Bag making / finishing.
Evaluate	batteries.	and record their	finishing.	Completing evaluation form.
	Create light box	animation using a	Completing evaluation	
	cover.	shadow screen.	form.	
	Evaluate.	Complete		
		evaluation form.		

	Yr 3	Yr 4	Yr 5	Yr 6
D & T	Shell structures / healthy and varied diet	Mechanisms: pneumatics	Food: celebrating culture and seasonality	Mechanical systems: cams
Topic link				

NC

To use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.

To select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.

To investigate and analyse a range of existing products.

To evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.

To apply their understanding of how to strengthen, stiffen and reinforce more complex structures.

To understand and apply the principles of a healthy and varied diet.

To use research and develop design criteria to inform the design of innovative, functional, appealing products that is aimed at a particular group of people.

To generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams and prototypes.

To select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.

To select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities

To understand and apply the principles of a healthy and varied diet.

To prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.

To understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed. To use research and develop design criteria to inform the design of innovative, functional, appealing products that is aimed at a particular group of people.

To generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams and prototypes.

To select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.

To select from and use a wider range of materials and components, including construction materials, according to their functional properties and aesthetic qualities

To investigate and analyse a range of existing products.

		rulers and	To know how to measure ingredients	shape of each Cam
	chop, slice and grate	To use scissors,	how it is processed	To recognise that the
	Knowing how to peel,	devices work	where it is grown and	moves specific parts.
	healthy and varied diet	simple pneumatic	food comes from,	Cam mechanism
Skills	Understanding about a	To understand how	To understand where	To understand how a
Skille	Understanding about a	To investigate and analyse a range of existing products. To evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. To understand how key events and individuals in design and technology have helped shape the world To apply their understanding of how to strengthen, stiffen and reinforce more complex structures To understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages].	To understand where	To evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. To understand how key events and individuals in design and technology have helped shape the world To apply their understanding of how to strengthen, stiffen and reinforce more complex structures To understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages].

Select the best tool from a range of equipment Measure, mark, score and assemble Know what a NFT shape is **Creating NET shapes** Designing a product for a purpose **Evaluating a product** for a purpose **Use joining techniques** to strengthen and make something more stable Using the Bridge Hold and the Claw Grip when cutting fruit/veg

measuring with accuracy

To improve their work through testing, peer analysis and making prototypes
To create a set of criteria
To draw expanded models
To use a variety of materials to make a product appealing

using measuring equipment

To be able to use kitchen equipment safely (knives / ovens / stoves)

To use chopping / knife techniques with accuracy (the bridge / the claw)

To understand how to create a varied and balanced, nutritious diet

To have an understanding of the cultures where certain food comes from and the traditions that surround them

will create a different movement

To create a set of criteria to make an automata out of cardboard and wood To use scissors, saws and cutting tools to create shapes with some accuracy
To measure, cut and

score with accuracy
To assemble, fasted
and secure parts of
an automata

To improve their product through testing, peer analysis and making prototypes

To improve their work through testing,

				peer analysis and making prototypes To evaluate a product based on set criteria To make annotated, cross sectional and exploded diagrams
People of	Nadiya Hussain		Nadiya Hussain	
interest	Jamie Oliver		Jamie Oliver	
Vocab	Shell	Pneumatic	Ingredients	Cam, snail cam, off-
	Structure	Device	Yeast	centre cam, peg cam,
	Cut	Components	Dough	pear shaped cam.
	Score	Fixing	Unleavened	Automata.
	Mark	Attaching	Utensils	
	Measure	Tubing	Combine, fold, knead,	Follower, axle, shaft,
	Join	Plunger	stir, pour, mix, rubbing	crank, handle,
	Assemble	Compression	in, whisk, beat, shape,	housing, framework
	Arrange	Pressure	sprinkle, crumble	rotation, rotary
	Grate	Inflate		motion, oscillating
	Slice	Deflate		motion, oscinating
	Chop	Process		

	Peel	Pump Seal Prototype	Carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury Source Seasonality	motion, reciprocating motion.
Outcome	Creating a piece of cardboard packaging for fruit or vegetables.	Creating a toy that opens and closes using a pneumatic device.	Making scones and pasta with a pasta sauce.	Creating a cardboard automata box with moving parts.
Equipment &	Paper	Plastic bottles	Measuring scales	Cardboard sheets (for
Materials	Card	Plastic tubing	Measuring jugs	making boxes/
	Scissors	Masking / Sello	Measuring spoons	frames)
	Tape	tape	Wooden spoons	Cardboard (for
	PVA glue	Balloons	Chopping boards	making levels / Cams)
	Glue sticks	Paper	Knives (plastic and	Pre-cut wooden Cams
	Rulers	Card	metal)	Dowel rods
	Plastic knives	Fabric	Whisks	Saws
	Metal knives	Scissors	Plastic bowls	Table clamps (G
	Plasticine	Split pin fasteners	Cheese graters	clamps)
		String		Rulers

Assorted soft fruits	Check for allergies P	VA glue
and veg: bananas/		1asking and Sello
kiwi/ cucumber/	Plain Flour (multi ta	ape
tomatoes (check for	purpose-not Self Sc	cissors
allergies beforehand)	Raising) H	and drills
Chopping boards	Butter (or vegetable Sa	and paper
Food pyramid sheets	spread) G	ardening / builders
to share	Baking powder gl	loves
	Yeast H	ot glue guns (we
	Milk (and dairy free) no	eed quite a few, so
	Sugar	rder the smaller
	Jam gl	lue sticks)
	Cream	
	Eggs	
	Oil	
	Tinned tomatoes	
	Salt	
	Fresh tomatoes	
	Oregano	
	Stock cubes	
	Cheese	

			Recipes	
Differentiation	Pre-made NET shapes.	Pre-chosen set of	Due to the use of	Mixed ability groups.
		materials to be	ovens / stoves, half	TA to address any
	TA/T support using	assembled /	the class will work	specific needs.
	scissors/ scoring etc.	partially	with an adult in the	
		assembled.	kitchen at a time, so	Pre-cut and partially
	Softer/ harder fruit or		supervision is more	assembled Cam
	veg to cut.	Mixed ability	manageable (ideally 2	models.
		groups.	adults in the kitchen).	
	Plastic knives for less			Sets of clear and
	able CHN.	Less / more	Mixed ability pairs /	simple instructions to
		working parts in	small groups,	build an automata
	Forks to hold fruit/ veg in place.	their plans.	supporting less able.	toy.
		TA specific	TA / T support for	More / less moving
		support.	individuals with	parts.
			specific needs.	
		Images to support		Visual diagrams to
		ideas.	Recipes altered for	follow and help
			more / less	support drawing.
			information.	

		Photographic evidence, rather than written.	Language simplified / extended within recipes.	
Lesson 1	Learning about a healthy diet. Cutting fruit using the bridge method. Cutting using the Claw	Look at a range of toys that use pneumatic devices (Water guns, rocket pumps,	Look at what a varied, nutritious and balanced diet looks like, consulting the food pyramid and	Look at Cam mechanisms within daily life (car engines) as well as within toys.
	method. Complete food pyramid into their books.	whoopy cushions etc.). Look at the science and engineering and begin to	considering our own daily nutrition. All will fill in their criteria sheet.	CHN to see some working Cams / Automata models and get the opportunity to use them.
		design our own using the criteria sheet. CHN will begin to experiment with	Look at a scone recipe. Make scone dough in small groups of 4/5.	Model how to use the tools and equipment safely.
		the equipment.	Half the class will be take to the Kitchen Classroom to bake, The	CHN to plan their own Automata toy using the design criteria sheet and will begin

			other half to the Kitchen to bake theirs. Once back in the D&T room, CHN will whip and thicken the cream and then assemble the cooled scones with jam and cream.	to create and source the materials they will need.
Lesson 2	Begin design criteria for shell structure Introduce NET shapes, begin to plan own.	Build the pneumatic toy. Pausing regularly to assess.	CHN will look at traditional Italian food and will use a recipe to make pasta in small groups of 3 or 4. Once the pasta dough is resting, we will use a recipe to make a tomato sauce and will prepare the grated cheese.	Model how to use the table clamps and saws safely (gloves for CHN who are not confident). Cut dowel to the correct sizes and create cardboard Cam shapes using cardboard. Model how to measure and build the Automata box (using the hot glue

			We will then split into 2 groups to use the Kitchen Classroom stove / Kitchen, coming back to the D&T room to assemble and put the food together.	guns) which will need to be completed by the end of the lesson.
Lesson 3	Complete NET shape/design. Complete evaluation form.	Complete pneumatic toy, finishing and making appealing. Complete evaluation.	Recap the need for nutrition/ balanced diet. CHN will create a recipe / information sheet on one of the things they made (pasts / sauce / scones) looking their information to the culture.	CHN will continue building their Automata using Cams mechanisms. CHN to use a series of evaluation-based questions to create their evaluation text in their books.

National Curriculum coverage across the year groups.

Art

D & T

National Curriculum requirements	KS1
Design:	
To design purposeful, functional, appealing products for themselves and	
other users based on design criteria & generate, develop, model and	
communicate their ideas through talking, drawing, templates, mock-ups	
and, where appropriate, information and communication technology	
Make:	
To select from and use a range of tools and equipment to perform practical	
tasks [for example, cutting, shaping, joining and finishing] * select from	
and use a wide range of materials and components, including construction	
materials, textiles and ingredients, according to their characteristics	

Evaluate:
To explore and evaluate a range of existing products • evaluate their ideas and products against design criteria
Technical knowledge: To build structures, exploring how they can be made stronger, stiffer and more stable ♣ explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.
Cooking and Nutrition: To use the basic principles of a healthy and varied diet to prepare dishes *

understand where food comes from.

National Curriculum requirements	K
Design:	
To use research and develop design criteria to inform the design of	
innovative, functional, appealing products that are fit for purpose, aimed at	
particular individuals or groups A generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-	
sectional and exploded diagrams, prototypes, pattern pieces and	
computer-aided design	
Make:	
To select from and use a wider range of tools and equipment to perform	
practical tasks [for example, cutting, shaping, joining and finishing],	
accurately select from and use a wider range of materials and components, including construction materials, textiles and ingredients,	
according to their functional properties and aesthetic qualities	
according to their randomal properties and destrictic quanties	
Evaluate:	

To investigate and analyse a range of existing products & evaluate their ideas and products against their own design criteria and consider the views of others to improve their work & understand how key events and individuals in design and technology have helped shape the world

Technical knowledge:

To apply their understanding of how to strengthen, stiffen and reinforce more complex structures & understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] & understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] & apply their understanding of computing to program, monitor and control their products.

Cooking and Nutrition:

To understand and apply the principles of a healthy and varied diet *
prepare and cook a variety of predominantly savoury dishes using a range
of cooking techniques * understand seasonality, and know where and how
a variety of ingredients are grown, reared, caught and processed.