

Design and Technology Progression

1 project per term in each class including 1 food project per year. A time allocation of 8-12 hours per project (40-60 minutes per week).

Area	F1	F2
Designing: Understanding contexts, users and purposes	I can create items of personal interest. I can use the environment/images to support the decision of what to create.	I can create items of personal interest. I can use the environment/images to support the decision of what to create. I can say what I am going to make before doing so and can talk about what it will look like. I can create objects for a given purpose (for play or given functionality). I can explain to an adult what I have created and what it is for.
Subject knowledge	Arouse awareness of features in the environment in the setting. Use the local area for exploring the built environment. Give opportunities to design practical, attractive environments e.g. organising equipment outdoors. Help children understand what a work is by using names and labels and by pointing out words in the environment e.g. a wheel is a circle shape. Add child-made books to the book area e.g. books with moving parts. Ensure role-play areas have labels and signs that children can move around.	Encourage children to express opinions on natural and built environments and give opportunities for them to hear different points of view on the quality of the environment. Point out words in the environment e.g. parts of construction kits such as wheel, axle and gear. Carry out activities using instructions, such as reading instructions to make a simple construction kit model. Model writing for a purpose e.g. a shopping list of ingredients for a sandwich. Ensure role-play areas encourage writing of signs with a real purpose e.g. building site.
Vocabulary	Clifton, Nottingham, England, label, get, put away, shape, circle, rectangle, square, share, shop, park, move	Clifton, Nottingham, England, why, where, who, make, like, dislike, circle, square, triangle, rectangle, build, share, wheel, axle, gear, list, sign
<u>Making:</u> Planning	I can line up some blocks. I can stack blocks one on top of the other for a vertical tower and lay them on the floor in rows. I can make snips in paper while moving the scissors forward across the paper. (6 inches) I can experiment with creating bridges with two blocks supporting. I can experiment with how to balance blocks, and use imagination in construction for example props such as cars and trucks. I can make cuts in paper whilst having a 'helping hand' to begin to cut in straight lines. I can make enclosures and bridges to become the scenery for imaginative	I can create closes spaces and enclosures. I can expand my building to take up large areas of space due to improved spacial awareness. I can create enclosures and bridges which become the scenery for imaginative play with props like dolls, animals and toy cars. I am beginning to cut a curved line. I can select pieces due to their size and shape to add symmetry and pattern. I can show signs of creativity, as I add accessories to my structures, e.g. vehicles, dolls, furniture, animals, loose parts (scarves, rocks, gems). I can cut around circles, squares and images, confidently changing cutting directions and the angle of hold. I can use small construction materials that join in different ways with confidence.

	I can begin to cut a curved line.	
Subject knowledge	Have large and small boxes available for construction both inside and outside. Encourage children to use scissors and understand they are to be used carefully and they can cut through paper. Children to experiment with blocks of different sizes to create towers, rows, bridges and enclosures.	Support children in thinking about what they want to make, the process involved and the materials they might need. Demonstrate and teach skills and techniques associated with the things children are doing e.g. how to balance bricks so they won't fall down. Demonstrate the language for shape, position and measures in discussions. Encourage estimation e.g. estimate how many sandwiches to make for a picnic. Get children involved in making displays e.g. making their own pictogram of lunch choices.
Vocabulary	Shape, build, behind, next to, in front of, under, on top, shape, large, small, safety, blocks, stack, tower, bridge, rows, balance, imagination, building.	Space, enclosure, building, bridge, scenery, curved line, straight line, size, shape, pattern, symmetry, structure, accessories, circles, squares, join
Evaluating: Own ideas and products	I can play with my creations.	I can play with my creations. I show pride in my creations, labelling them for safe keeping. I can reflect on my project and say what worked well.
Existing products		
Subject knowledge	Allow children to store and return to their creations. Encourage them to take them to different areas of the environment. E.g. making a boat then testing it out in the water tray.	Allow children to store and return to their creations. Encourage them to take them to different areas of the environment. E.g. making a boat then testing it out in the water tray. Provide paper in construction areas to enable children to label creations. Encourage children to talk about project and reflet on what worked and what didn't.
Vocabulary	Creation, test, play	Creation, test, proud, play, label, reflect, evaluate, like, dislike, worked well, didn't work well, improve
Technical Knowledge: Making products work	I can imitate how an adult uses tools. I can engage and explore using a range of tools in the environment with the support of an adult. I can say which tools I need for a specific purpose. I can know how to join construction pieces together to build and balance.	I can join constructions pieces together to build and balance. I know when to use specific adhesives (glue stick - paper, PVA - heavier items) and can use them effectively. I know that paper can be joined in several ways and apply this knowledge in my creative work. I can select construction pieces due to their aesthetics, size or function. I can join simple components in 3D structures effectively using a selected method of joining (box modelling).
Subject knowledge	Provide a range of tools for children to explore. Encourage children to consider how to join construction pieces together.	Provide resources for joining things together and combining materials.

Vocabulary	Tools, Selloptape, glue tick, masking tape, paperclip, plasticine, ruler, straw, scissors	Join, construction, build, balance, stick, glue stick, sellotape, PVA glue, split pin, string, ribbon, size, large, small, long, short, 3D, masking tape
Cooking and		
Nutrition:		T can identify what healthy choices are
Food		I know the importance of making healthy choices.
preparation,		I can talk about why we make healthy choices.
nutrition and		
cooking		
Subject		Prior to food activities, find out from parents/carers about tasting or handling any
knowledge		food ingredients or products due to allergies, intolerances, cultural or other
_		reasons.
		Introduce the importance of a healthy diet when evaluating different types of food.
Vocabulary		Equipment, healthy, food, sugar, energy, taste, touch, feel, smell

Strands	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Desianina:	I can work within a	I can work within	I can work within a	I can confidently work	I can work within a range	I can work
	range of familiar	a range of	range of contexts e.g.	within a range of	of contexts e.g. home,	confidently within a
Understanding	contexts e.g. story-	contexts e.g.	home, school, leisure	contexts e.g. home,	school, leisure, culture,	range of contexts
contexts, users	based, school,	local community,	and wider environment.	school, leisure and	enterprise and the wider	e.g. home, school,
and purposes	home, playgrounds.	industry and	I can consider a	culture.	environment.	leisure, culture,
	I can begin to	wider	product's purpose and	I can start to	I can discuss and explain	enterprise, industry
	communicate what	environment.	the user/s with	consider the purposes	the purpose of my	and the wider
	I am making and	I can explain	growing confidence.	for which I am	products.	environment.
	who it is for.	which products I	I can consider the	designing.	I can begin to use,	I can confidently
	I can describe	am making and	views of others,	I can gather	research from	explain the purpose
	what my products	designing.	including intended	information about the	investigations and a range	of a product by
	will be used for	I can discuss	users.	needs and wants of	of information sources to	modelling ideas in a
	through talk.	whether my	I can identify a	particular individuals	develop a design criteria	variety of ways.
	I can say how my	products are for	purpose and establish	and groups.	that will inform the	I can carry out
	products will work	myself or	criteria for a	I can develop my own	design of innovative,	research, using
	in simple terms.	someone else.	successful product.	design criteria and	functional and appealing	surveys, interviews,
	I can say how my	I can describe		use these to inform	products that are fit for	questionnaires and
	products will help	what my products		my ideas.	purpose.	web-based
	the user.					resources.

Generating	I can use a simple design criteria to develop my ideas.	are for in a variety of ways. I can say how my products will work. I can say how I will make my products suitable for their intended users. I can use simple design criteria to help develop my ideas.	With growing	T can start to	T con comencia, develop	I can identify the needs, wants, preferences and values of particular individuals and groups. -I can develop a simple design specification to guide my thinking.
Generating, developing	I can begin to draw on my own	1 can generate ideas by drawing	With growing confidence I can	I can start to generate realistic	I can generate, develop, model and communicate	1 can generate innovative ideas
modelling and	experiences to	on my own and	generate ideas for an	ideas and	my ideas through:	through discussion.
communicating	help generate	other people's	item considering its	communicate my ideas	Discussion	drawing on
ideas	ideas.	experiences.	purpose and the user.	through discussion and	 Annotated 	research.
	I can begin to	I can use	I can model ideas using	annotated sketches.	sketches	I can model my ideas
	develop my ideas	knowledge of	prototypes.	I can model a range of	 Cross-sectional 	using prototypes and
	through talk and	existing products	I can make my own	ideas using prototypes.	drawings	pattern pieces.
	drawing.	to form ideas.	design decisions.	I can make design	Exploded diagrams	I can use annotated
	I can make	I can develop		decisions that take	 Prototypes 	sketches, cross-
	templates and	and communicate		account of the	Pattern pieces	sectional drawings
	mock-ups of my	ideas by talking		availability of	 Computer-aided 	and exploded
	ideas in card and	and drawing.		resources.	design (Tinker	diagrams to develop
	paper or using ICT	I can model ideas			CAD).	and communicate my
	(Tinker CAD).	by exploring			I can make design	ideas.
		materials,			decisions that take	I can use computer-
		components and			account of resources and	aided design (CAD)
		construction kits			time.	to develop and
		and by making				communicate my
		templates and				ideas (Tinker CAD).
		mock-ups.				I can make design
						decisions, taking

Subject	A product is an	I can use ICT to develop and communicate my ideas (Tinker CAD).	A mastati na ia e finat	Annetated skatak	Cross costional drawing	account of constraints such as time, resources and cost.
knowledge	A product is an object that is made which should fulfil users' needs, wants and purposes.	components are a part or element of a larger whole, usually a part of a machine or vehicle.	A prototype is a first version of an object from which other forms are developed.	Annotated sketch	A Cross Section of a Voléano eruption cloud secondary cone lava flow magma chamber	pieces of paper shapes that are traced onto the fabric to be cut, with each individual pattern piece serving as a part to be sewn.
					Exploded diagrams help when we want to show people the parts or components of the product we are designing, how they fit together and the order of assembly. The exploded diagram shows the contents of a sandwich How could you add more detail?	Bode Bock Bock Bock Front Front Facing Skirt Back Skirt Front
Vocabulary	I can use words such as: Product Idea Mock-up	I can use words such as: Purpose Design Component	I can use words such as: Product Purpose User	I can use words such as: Purpose Product Develop	I can use words such as: Environment Purpose Product Develop	I can use words such as: Enterprise Purpose Product
		Product User Template Mock-up Material	Criteria Prototype Model	Design Criteria Sketch Prototype Annotate	Design criteria Innovative Functional Appealing Fit for purpose	Interview Questionnaire Survey Design specification Prototype

					Annotate Cross-section Exploded diagram Prototype Pattern pieces CAD	Pattern pieces Annotate Cross section Exploded diagram CAD
Making: Planning	I can begin to discuss the steps I will take to make a product. I can select and name the tools needed to perform a practical task e.g use scissors for cutting and glue for joining. I can select materials from a limited range that will meet a simple design criteria.	I can plan by suggesting the steps I will take next. I can select from a range of tools and equipment, explaining my choices. I can select from a range of materials and components according to their characteristics.	I can use a range of tools, materials, components and equipment. I can explain my choice of materials and components including function and aesthetics, using some technical vocabulary.	I can select a range of tools, materials, components and equipment suitable for the task. I can explain my choice of materials and components according to function and aesthetics, using a range of technical vocabulary. I can order the main stages of making.	With growing confidence, I can select appropriate materials, tools, components, equipment and techniques. I can explain my choice of tools and equipment in relation to the skills and techniques I will be using. I can produce appropriate lists of tools, equipment and materials I need.	I can confidently select a range of tools, components, materials and equipment suitable for the task. I can confidently explain my choice of tools and equipment using technical vocabulary. I can confidently produce an appropriate lists of tools, equipment and materials I need.
Practical skills and techniques	I can begin to work safely and hygienically. I can begin to use materials, components, construction kits, textiles food ingredients and mechanical components. With help, I can measure, mark out, cut and shape	I can follow procedures for safety and hygiene. I can use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components.	I can demonstrate techniques safely and hygienically. I can select a wider range of tools and techniques for making my products e.g. construction materials and kits, textiles, food ingredients, mechanical components and electrical components. I can measure, mark out, cut and shape	I can demonstrate and follow procedures for safety and hygiene purposes. I can select a wider range of tools and techniques for making my products safely. I know how to measure, mark out, cut and shape a range of materials, using appropriate tools,	I understand and can follow procedures for safety and hygiene. I can select from and use a wider range of materials and components including construction materials, according to their functional properties and aesthetic qualities. I can accurately measure, mark out, cut and shape materials and components.	I know and can follow the procedures for safety and hygiene. I can confidently select appropriate tools, materials, components and techniques and use them effectively. I can accurately measure, mark out, cut and shape materials and

	a range of materials. I can begin to assemble, join and combine materials and components together e.g. glues or masking tape. I can begin to use simple finishing techniques to improve the appearance of my product.	I can measure, mark out, cut and shape materials and components. I can assemble, join and combine materials and components. I can use finishing techniques, including those from art and design.	materials and components with some accuracy. I can start to join and combine materials and components with some accuracy. I can apply a range of finishing techniques, including those from art and design, with some accuracy.	equipment and techniques. I can assemble, join and combine materials and components with increasing accuracy. I can use a range of finishing techniques to strengthen and improve designs with increasing accuracy.	I can accurately assemble, join and combine materials and components. I can accurately apply a range of finishing techniques, including those from art and design. I can use techniques that involve a number of steps. I can demonstrate resourcefulness when tackling practical problems.	components, using appropriate tools, equipment and techniques. I can accurately assemble, join and combine materials and components to make working models. I can use finishing techniques to strengthen and improve the appearance of my product using a range of equipment and ICT. I can formulate step-by-step plans as a guide to making. I can demonstrate resourcefulness when making modifications as I go along .
Vocabulary	I can use words such as: Material Measure Mark out Cut Shape Assemble Join	I can use words such as: Material Measure Mark out Shape Assemble Join Combine	I can use words such as: Material Tools Component Function Textiles Combine Accuracy	I can use words such as: Materials Tools Equipment Technique Accuracy Strengthen	I can use words such as: Materials Components Technique	I can use words such as: Tools Components Materials Technique Modification

Evaluatina:	I can begin to talk	I can talk about	I can use a design	I can confidently use	I can evaluate the quality	I can critically
<u>craidanng.</u>	about my designs	my design ideas	criteria as I design	my design criteria as	of the design,	evaluate the quality
Own ideas and	as I develop and	and what I am	and make.	I design and make.	manufacture and	of the design,
products	identify good and	making.	I can start to	I can use my design	suitability of my	manufacture and
products	bad points.	I can make	evaluate my product	criteria to evaluate	products.	suitability of my
	I can begin to	simple	against original design	my completed	I can evaluate against my	products as I
	evaluate my	judgements	criteria.	products.	original criteria.	design and make.
	products and	about my	I can identify the	I can identify the	I can evaluate my work	I can evaluate my
	explain what I like	products and	strengths and areas	strengths and areas	during its process.	ideas and products
	and dislike.	ideas against	of development in my	for development in my	I can suggest ways my	against my original
	I can begin to talk	design criteria.	products and can	ideas and products.	product could be	design specification.
	about my products'	I can discuss	consider the views of	I can consider the	improved, seeking	I can evaluate my
	strengths and	what works well	others to improve my	views of others,	evaluation from others.	work both during
	possible changes I	and how my	products.	including intended		and at the end.
	might make.	products could		users, to compare and		I can apply research
		be improved.		improve my work.		to suggest ways my
						product could be
						improved.
Existing	I know what	I know and can	I know who designed	I know who designed	I know how much products	I know how much
products	products are.	describe what	and made the products	and made the products	cost to make.	products cost to
	I can discuss how	products are.	e.g. Velcro, Dyson	e.g. electric light bulb,	I can investigate and	make.
	products work, how	I know who	vacuum cleaner,	motion picture camera	analyse how innovative	I can investigate
	and where they are	products are	Warburton's bread,	and phonograph, cat's	products are.	and analyse how a
	used and who they	for, how and	three-light traffic	eye.	I can evaluate how	range of innovative
	can be used by.	where they	light.	I can discuss where	sustainable the materials	products are.
	I can select	might work and	I can discuss where and	and when products are	in products are.	I can evaluate how
	materials which	be used.	when some products	designed and made.	I understand that	sustainable the
	products are made	I can recognise	were designed and	I can identify whether	products can have an	materials in
	from.	what materials	made.	products can be	impact beyond their	products are.
	I can say what I	products are	I know whether	recycled or reused.	intended purpose.	I understand that
	like and dislike	made from.	products can be	I can test and explain	I can investigate how well	products can have
	about products.	I can	recycled or reused.	how well products	products have been	an impact beyond
		communicate	I can give an opinion	have been designed	designed and made.	their intended
		what I like and	on how well products	and can give reasons.	I can investigate why	purpose and discuss
		dislike about	have been designed	I understand why	materials have been chosen	this.
		products.	and reasons for this.	particular materials	and which methods of	I can investigate
				have been chosen or		and analyse how

		I understand why certain materials are used to make certain types of products. I can identify methods of construction that have been used to create a product. I can test how well products work and how purposeful they are. I can discuss whether a product meets a user's needs and wants.	certain methods of construction have been used. I can test how well products work. I can discuss and explain how well products achieve their purpose and can give reasons. I can investigate how well products meet user needs and wants.	construction have been used. I can investigate how well products work and how well products achieve their purposes. I can investigate how well products meet user needs and wants. I can evaluate original design criteria and suggest ways it can be improved.	well products have been designed and made. I can investigate and analyse why materials have been chosen or which methods of construction have been used. I can investigate and analyse how well products work and whether they achieve their intended purposes. I can investigate and analyse how well products meet user needs and wants. I confidently can evaluate original design criteria and suggest ways it can be improved.
Key events and individuals		I know about a variety of designers who have developed ground-breaking products. George De Mestral - Velcro James Dyson - bagless vacuum cleaner	I know about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products. Thomas Edison - electric light bulb,	I can evaluate inventors, designers, engineers, chefs and manufacturers' products who have helped shape the world. Farnolls Pritchard - architect, first cast-iron bridge Stephen Sauvestre - architect, Eiffel Tower	I can evaluate the key designs of individuals in design and technology who have helped shape the world. Samuel F.B. Morse - Morse Code

			Thomas Warburton - bread/bakery Garrett Morgan - three-light traffic light, Isambard Kingdom Brunel - engineer, bridges and ships	motion picture camera and phonograph. Percy Shaw – cat's eye Ainsley Harriott – chef	Ole Kirk Christiansen, Lego Jamie Oliver, chef	Normal Foster – architect, The Gherkin Marie Van Brittan– Brown – home security system
Subject knowledge	Materials products are made from: glass, wood, metal, plastic. Ensure a range of materials are displayed.	When looking at a product: Who is the user? What is it made out of? Why was this material chosen? Disassemble the product: How was it made? What is the net like? How does it work?	When something is recycled it is reused or turned into something else. Materials like glass, metal and paper are easy to recycle and certain types of plastic are too. Objects that aren't recycled, such as things that go in the rubbish, are taken to landfill sites. Rubbish gets buried and left to biodegrade.	A phonograph is a device for the mechanical recording and reproduction of sound. It is also called a gramophone or record player. A motion picture camera takes a rapid sequence of photographs on a film. In contrast to a still camera, which takes a single snapshot at a time.	To make a sustainable product use natural materials, materials that can be recycled, reuse materials use zero waste.	Innovative products: self-stirring mug, balcony bridge planters, heated butter knife, pocket sized washing machine
Vocabulary	I can use words such as: Product Material Like Dislike	I can use words such as: Design Product Like Dislike	I can use words such as: Product Design Reuse Recycle Opinion Purpose	I can use words such as: Design criteria Evaluate Recycle Reuse Purpose Investigate Inventor Designer Engineer Chef Manufacturer	I can use words such as: Evaluate Manufacture Analyse Purpose Inventor Designer Engineer Chef Manufacturer	I can use words such as: Product Innovative Sustainable Purpose Analyse Inventor Designer Engineer Chef Manufacturer

Technical	I can begin to	I understand the	I can begin to select	I can explain how	I understand that	I understand and can
<u>rechnicur</u>	understand the	simple working	tools and materials	mechanical systems	mechanical systems such as	explain how a range
<u>Knowledge:</u>	simple working	characteristics	for designing and	such as levers and	cams or pulleys or gears	of mechanical
	characteristics of	of materials and	making product.	linkages or pneumatic	create movement. (Out of	systems such as
Makina products	materials and	components.	I can use the correct	systems create	this world!)	cams, pulleys or
work	components.	I understand	vocabulary to name	movement. (Gizmos and	I can confidently apply my	gears can be used
	I can look at simple	that there are	and describe a range	Gadgets)	knowledge of electrical	create movement.
	hinges, wheels and	simple	of materials and tools.	I understand how	circuits and components to	(Amazing Americas)
	axles. (The Old Toy	mechanisms that	I can discuss how	electrical circuits and	create functional products.	I know how more
	Box)	can create	simple electrical	components can be	I can program a computer	complex electrical
	I can start to build	movement such	circuits and	used to create	to monitor changes in the	circuits and
	structures, joining	as levers,	components can be used	functional products.	environment and control	components can be
	components	sliders, wheels	to create functional	(Our Changing World)	my products.	used to create
	together. (Travel	and axles . <mark>(Lost!)</mark>	products. (Out and	I can program a	I know how to reinforce	functional products.
	the World)	I can discuss how	About)	computer to control my	and strengthen a 3D model.	(Bright Sparks)
	I can assemble two	freestanding	I know that a computer	products. (Gizmos and	(Out of this world!)	<mark>I can program a</mark>
	fabric shapes.	structures can	can be used to control	Gadgets)	I understand that 3D	computer to monitor
	(Arctic Adventures)	be made	my products. (Out and	I can make strong,	textile products can be	<mark>changes in the</mark>
	I can use technical	stronger, stiffer	About)	stiff shell structures.	made from a combination	environment and
	vocabulary where	and more stable.	I can begin to make	(Raiders and Traiders)	of fabric shapes.	<mark>control my products</mark> .
	appropriate.	(London's	strong, stiff shell	I know that a single	(Adventure to Australia)	NEED SUPPORT
	I can combine food	Burning!)	structures. (Stone Age	fabric shape can be	I can begin to understand	PLEASE
	ingredients	I know that a 3D	to Iron Age)	used to make a 3D	that a recipe can be	I understand how to
	according to their	textiles products	I know that a single	textiles product.	adapted by adding or	reinforce and
	characteristics.	can be assembled	fabric shape can be	(Marvellous Mexico)	substituting ingredients.	strengthen a 3D
	(Let it Grow!)	from two	used to make a 3D	I know that food	(The Seven Summits)	model. (Crime and
		identical fabric	textiles product e.g.	ingredients can be		Punishment)
		shapes e.g. mark	folding and sewing a	fresh, pre-cooked and		I can explain how 3D
		and cut out 2	piece of fabric to make	processed. (Marvellous		textiles products can
		identical shapes	a cushion. (How does	Mexico)		be made from a
		to make a glove	your Garden Grow?)			combination of
		puppet.	I know that food			tabric shapes.
		(Magnificent	ingredients can be			(Amazing Americas)
		Materials)	tresh, pre-cooked and			I know that a recipe
		I know that food	processed. (Healthy			can be adapted by
		ingredients	Humans)			adding or
		should be				substituting one or

		combined according to their sensory characteristics e.g. appearance, taste, texture and smell. (Let it Grow!)				more ingredients. (World War 2)
Subject knowledge	Hinge - a moveable joint or mechanism on which a door, gate or lid swings as it opens and closes or which connects linked objects. Axle - a rod or spindle (fixed or rotating) passing through the centre of a wheel/group of wheels.	Use words to describe movement: up, down, left, right, vertical and horizontal. As a freestanding structure becomes taller, its centre of gravity rises. Stability in a structure can generally be increased by making the base wider, making the base heavier or adding buttresses. 3D textile products should be created using templates and used to mark out and cut identical fabric shapes.	You can control products using the Crumble kit. This allows connections to switches, drives motors forwards and backwards, lights up LEDs called Sparkles etc. It uses a computer to program the Crumble to control the product.	Pneumatic systems use air to make things move. When you compress or deflate air out of a container like a syringe it will push the air to fill another container like a balloon. The balloon will inflate. If you release the pressure it will deflate.	Cams are devices which can convert rotary motion into linear motion (movement in a straight line) or activate a linkage. A cam is a specially shaped piece of material, usually metal or hard wearing plastic, which is fixed to rotating shaft. Cam Pulley Pulley A pulley is a grooved wheel with a rope, chain or cable running along the groove. Textile materials must be chosen after their physical properties have been explored and evaluated e.g. a travel bag for a teenager needs to be durable, tough and splash proof; a jacket for air cabin crew needs to	Textile products:

		They can be joined together by stitching, gluing or stapling.			be washable without fading and not crease; a play blanket for a toddler needs to withstand rough treatment and colours not run with spills. Fabric samples could be wool, cotton, nylon, old	
					jumpers, Lycra etc.	
Vocabulary	I can use words such as: Hinge Wheel Axle Fabric Combine	I can use words such as: Lever Slider Wheel Axle Structure Stiffer Stable 3D Textile Fabric Combine	I can use words such as: Electrical circuit Component Shell structure Fabric shape 3D Textile Pre-cooked Processed	I can use words such as: Lever Linkage Pneumatic system Electrical circuit Component Program Shell structure Fabric shape 3D Pre-cooked Processed	I can use words such as: Cams Pulleys Gears Electrical circuit Component Program 3D framework 3D textiles Fabric shapes Substitute	I can use words such as: Cams Pulleys Gears Electrical circuit Program Reinforce 3D framework 3D textiles Fabric shapes Substitute
<u>Cooking and</u> <u>Nutrition:</u> Where food comes from.	I can begin to understand that all food comes from plants or animals. I can start to understand that food has to be farmed, grown elsewhere (home) or caught. (Let it Grow!)	I know that all food comes from plants or animals. I know that food has to be farmed, grown elsewhere (home) or caught. (Let it Grow!)	I understand that some food is grown (vegetables, grains, grain and crops). I understand that some food is reared (pigs, chickens). I understand that some food is caught (fish) in the UK, Europe and the wider world. (Out and About)	I understand and can identify which food is grown (vegetables, grains, grain and crops) reared (pigs, chickens) and caught (fish) in the UK, Europe and the wider world. (Our Changing World)	I understand that seasons may affect the availability of food that is grown, reared or caught. I can begin to explain how food is processed into ingredients that can be eaten or used in cooking. (The Seven Summits)	I can confidently explain how seasons may affect the availability of food that is grown, reared or caught. I understand and can confidently explain how food is processed into ingredients that can be eaten or used in cooking.

						(Location, Location,
						Location)
Food	I am starting to	I can name and	I am starting to	I understand that a	I am beginning to	I know that recipes
preparation,	name and sort	sort foods into	understand that a	recipe can be adapted	understand that recipes	can be adapted to
cooking and	foods into the 5	the 5 groups in	healthy diet is made	by adding or	can be adapted to change	change the
nutrition.	groups in The Eat	The Eat Well	up from a variety and	substituting one or	the appearance, taste,	appearance, taste,
	Well Plate (covered	Plate.	balance of different	more ingredient.	texture and aroma.	texture and aroma.
	in Science).	I know that	food and drink (The	I understand that a	I am beginning to	I know that
	I am beginning to	everyone should	Eat Well Plate).	healthy diet is made	understand that different	different food and
	understand that	eat at least 5	I am starting to	up from a variety and	food and drink contain	drink contain
	everyone should	portions of fruit	understand that to be	balance of different	different substances -	different
	eat at least 5	and vegetables	active and healthy,	food and drink (The	nutrients, water and	substances -
	portions of fruit	every day.	food and drink are	Eat Well Plate).	fibre - that are needed	nutrients, water
	and vegetables	I can prepare	needed to provide	I know that to be	for health.	and fibre - that are
	every day.	simple dishes	energy for the body.	active and healthy,	I can prepare and cook a	needed for health.
	I know how to	safely and	I can prepare and	food and drink are	variety of predominantly	I can prepare and
	prepare dishes	hygienically,	cook a variety of	needed to provide	savoury dishes safely and	cook a variety of
	safely and	without using a	predominantly savoury	energy for the body.	hygienically including,	predominantly
	hygienically,	heat source.	dishes safely and	I can prepare and	where appropriate, the	savoury dishes
	without using a	I can	hygienically including,	cook a variety of	use of a heat source	safely and
	heat source.	demonstrate	where appropriate,	predominantly savoury	(supported by an adult).	hygienically
	I know how to use	how to use	the use of a heat	dishes safely and	I can use tools such as	including, where
	techniques such as	techniques such	source (supported by	hygienically including,	round-ended knives,	appropriate, the
	cutting, peeling	as cutting,	an adult).	where appropriate,	vegetable peelers, apple	use of a heat
	and grating.	peeling and	I am beginning to use	the use of a heat	corers and graters to	source (supported
	(Travel the World)	grating.	a range of techniques	source (supported by	make products e.g. design	by an adult).
		(Lost!)	such as peeling,	an adult).	and make fillings for	I can use mixing to
			chopping, slicing,	I can use a range of	bread-based products.	combine ingredients,
			grating, mixing,	techniques such as	(The Seven Summits)	rubbing-in to mix
			spreading, kneading	peeling, chopping,		fat and flour and
			and baking.	slicing, grating,		kneading when
			(Healthy Humans)	mixing, spreading,		working with bread
				kneading and baking.		dough to design and
				(Raiders and Traders)		make a range of
						savoury, baked
						products.
						(World War 2)

Subject knowledge The Eatwell Plate A Balanced Plate Orange orations Diag prodets Diag prodets This and segas This and segas	5 food groups: -Fruit and vegetables -Grains, cereals and potatoes -Dairy products -Meat, fish, nuts and eggs -Fats and sugars		Kneading is a process in the amking of bread or pasta dough, used to mix the ingreidients and add strength to the final product.	Seasonal changes in precipitation and temperature affect soil, evaporation rates, river flows, lake levels and snow cover. Leaves fall and plants wither. The changes in vegetation affect the type and amount of food available.	Common processed foods: cereals, crisps, sausage rolls, pies, meat products (bacon, ham, salami) and ready meals. They have high amounts of salt and sugar.
Vocabulary I can use words such as: Fruit Vegetables Cereals Grains Dairy Meat Fish Fats Sugars Portion Safely Hygiene Cutting Peeling Grating	I can use words such as: Amount Chopping board Grater Ingredients Knead Masher Measure Measuring jug Measuring jug Measuring jug Measuring Spoons Method Mixing bowl Pastry cutters Peeler Recipe Saucepan Scales	I can use words such as: Energy Hygienically Savoury Peeling Chopping Slicing Grating Mixing Spreading Kneading Baking	I can use words such as: Grams/kilograms Hygiene Ladle Litre/millilitre Spatula Temperature Whisk Peeling Chopping Slicing Grating Mixing Spreading Kneading Baking	I can use words such as: Texture Aroma Substance Nutrients Fibre Savoury Peeling Chopping Slicing Grating Mixing Spreading Kneading Baking	I can use words such as: Texture Aroma Processed Peeling Chopping Slicing Grating Mixing Spreading Kneading Baking

*statements in italics are additional to the programme of study for D&T