Year/Term		EYFS	1	2	3	4	5	6
		2110	design functional products for themselves	design purposeful, functional, appealing products for themselves and other users	use design criteria to inform the design of innovative	use research and develop design criteria to inform the design of	use research and develop design criteria to inform the design of innovative, functional, appealing	use research and develop design criteria to inform the design of innovative, functional, appe
			and other users based on design criteria	based on design criteria		innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups	products that are fit for purpose, aimed at particular individuals or groups	products that are fit for purpose, aimed at particular individuals or groups
			communicate their ideas through talking,	generate, develop, model and communicate their ideas through talking, drawing,			generate, develop, model and communicate their ideas through discussion, annotated	generate, develop, model and communicate their ideas through discussion, annotated
			drawing, templates and mock-ups	templates, mock-ups and, where appropriate, information and communication		generate, develop, model and communicate their ideas through	sketches, cross-sectional and exploded diagrams, prototypes	sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and
				technology	through discussion, annotated	discussion, annotated	a desidence and one and design of the land and and an effect of the second second second second second second s	computer-aided design
			select from and use a range of tools safely	select from and use a range of tools safely and equipment to perform practical tasks	sketches, prototypes, pattern pieces,	sketches, prototypes, computer-aided design	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 tools and equipment to perform practical tasks ifor e
				[for example, cutting, shaping, joining and finishing]	select from and use a wider range of tools and	select from and use a wider range of tools and equipment to perform	county, snaping, joining and inisting, acculately	cutting, shaping, joining and finishing], accurately
				(	equipment to perform practical tasks [for example,		select from and use a wider range of materials and components, including construction materials,	
National Curriculum			explore a range of existing products	select from and use a wide range of materials and components, including construction		accurately	textiles and ingredients, according to their functional properties and aesthetic qualities investigate	select from and use a wider range of materials and components, including construction m
				materials, textiles and ingredients, according to their characteristics			and analyse a range of existing products	and ingredients, according to their functional properties and aesthetic qualities investigat
			explore and use mechanisms [for example			select from and use a wider range of materials and components,		range of existing products
			wheels and axles] in their products	explore and evaluate a range of existing products			evaluate their ideas and products against their own design criteria and consider the	
				evaluate their ideas and products against design criteria	and ingredients, according to their functional properties and aesthetic qualities investigate a range of existing	their functional properties and aesthetic qualities investigate and	views of others to improve their work	evaluate their ideas and products against their own design criteria and consider the views of others to improve their work
				evaluate their ideas and products against design criteria	and aesthetic qualities investigate a range of existing products	analyse a range or existing products	understand how key events and individuals in design and technology have helped shape the world	views of others to improve their work
				build structures, exploring how they can be made stronger, stiffer and more stable	products	evaluate their ideas and products against their own design criteria	and share now key events and manufactor in design and contrology nave helped shape the world	understand how key events and individuals in design and technology have helped shape
					evaluate their ideas and products against their own		apply their understanding of how to strengthen, stiffen and reinforce more complex structures	
				explore and use mechanisms [for example, levers, sliders, wheels and axles] in their	design criteria	understand how key events and individuals in design and technology		understand and apply the principles of a healthy and varied diet (seasonality)
				products		have helped shape the world	understand and use mechanical systems in their products [for example, gears, pulleys, cams]	
				l	understand how key events and individuals in design		1	prepare and cook a variety of predominantly savoury dishes using a range of cooking tech
				use the basic principles of a healthy and varied diet to prepare dishes	and technology have helped shape the world		understand and use electrical systems in their products [for example, series circuits incorporating	and an end of the second barrier and barrier and barrier and the second s
				understand where food comes from	understand and apply the principles of a healthy and	more complex structures	switches, bulbs, buzzers and motors]	understand seasonality, and know where and how a variety of ingredients are grown, rear processed.
					varied diet	understand and use mechanical systems in their products (for	apply their understanding of computing to program, monitor and control their products	processes.
		Baseline completed within first two weeks.		· Early experiences of working with paper and card to make simple flaps and hinges.		· Explored and used mechanisms such as flaps, sliders and levers.	<ul> <li>Experience of axies, axie holders and wheels that are fixed or free moving.</li> </ul>	· Have knowledge and understanding about food hygiene, nutrition, healthy eating and a
				Experience of simple cutting, shaping and joining skills using scissors, glue, paper	hygienically.	· Gained experience of basic cutting, joining and finishing techniques	Basic understanding of different types of movement.	· Be able to use appropriate equipment and utensils, and apply a range of techniques for
	Prior			fasteners and masking tape.	Have some basic knowledge and understanding	with paper and card.	<ul> <li>Experience of cutting and joining techniques with a range of materials including card, plastic and</li> </ul>	preparing and combining ingredients.
	Learning				about healthy eating and The eatwell plate.		wood.	
					<ul> <li>Have used some equipment and utensils and prepared and combined ingredients to make a</li> </ul>		<ul> <li>An understanding of how to strengthen and stiffen structures.</li> </ul>	
					prepared and combined ingredients to make a			
		Explore different materials freely, to develop		· Generate ideas based on simple design criteria and their own experiences, explaining			Generate innovative ideas by carrying out research using surveys, interviews, questionnaires and	
		their ideas about how to use them and what		what they could make.	peers and adults to develop design criteria including		web-based resources.	brief and criteria for a design specification.
		to make.		Develop, model and communicate their ideas through drawings and mock-ups with	appearance, taste, texture and aroma for an appealing product for a particular user and purpose	Use annotated sketches and prototypes to develop, model and communicate ideas	Develop a simple design specification to guide their thinking.	<ul> <li>Explore a range of initial ideas, and make design decisions to develop a final product link</li> </ul>
	Design	Draw with increasing complexity and detail		card and paper.	Use annotated sketches and appropriate information	communicate loeas.	<ul> <li>Develop and communicate ideas through discussion, annotated drawings, exploded drawings and drawings from different views.</li> </ul>	<ul> <li>Purpose.</li> <li>Use words, annotated sketches and information and communication technology as approximation</li> </ul>
	Design	braw warmer casing complexity and detail			and communication technology, such as web-based		damiga ion dictan news.	develop and communicate ideas.
					recipes, to develop and communicate ideas.			
				Can explain how their design will fulfil a purpose by referring back to the brief (What is		Create & follow a design brief from given information about the		Design, using their own research, a product which is aimed at a specific group or individu
		Join different materials and explore different		It? Who is it for? What should it do?)  Plan by suggesting what to do next.	Plan the main stages of a recipe, listing ingredients,	Order the main stages of making	Produce detailed lists of tools, equipment and materials, Formulate step-by-step plans and, if	Write a step-by-step recipe, including a list of ingredients, equipment and utensils
		textures		<ul> <li>Select and use tools, explaining their choices, to cut, shape and join paper and card.</li> </ul>		<ul> <li>Select from and use appropriate tools with some accuracy to cut,</li> </ul>	appropriate, allocate tasks within a team.	<ul> <li>Select and use appropriate utensils and equipment accurately to measure and combine</li> </ul>
				Use simple finishing techniques suitable for the product they are creating.	· Select and use appropriate utensils and equipment to	shape and join paper and card.	Select from and use a range of tools and equipment to make products that that are accurately	ingredients.
Curriculum		Use a range of tools to create			prepare and combine ingredients.	Select from and use finishing techniques suitable for the product	assembled and well finished. Work within the constraints of time, resources and cost.	Make, decorate and present the food product appropriately for the intended user and put
eas covered	Make				Select from a range of ingredients to make	they are creating.		
					appropriate food products, thinking about sensory			
Skills / Knowledge			Can use simple tools & equipment		Can use a wider range of tools & equipment		Can use a wider range of tools & equipment appropriately & safely for a specific purpose, with	
			appropriately & safely for a specific purpose		appropriately & safely for a specific purpose, with		precision (measuring, cutting, joining)	
		Discuss preferences, likes/dislikes	(cutting inining)	Explore a range of existing books and everyday products that use simple sliders and	some accuracy (measuring cutting joining)     Carry out sensory evaluations of a variety of	<ul> <li>Investigate and analyse books and, where available, other products</li> </ul>	Compare the final product to the original design energification	· Carry out sensory evaluations of a range of relevant products and ingredients. Record th
		Provide preterences, inconcisines		levers	ingredients and products. Record the evaluations	<ul> <li>Investigate and analyse books and, where available, other products with lever and linkage mechanisms.</li> </ul>	<ul> <li>Compare the final product to the original design specification.</li> <li>Test products with the intended user, where safe and practical, and critically evaluate the quality of</li> </ul>	
		Discuss similarities and differences		<ul> <li>Evaluate their product by discussing how well it works in relation to the purpose and</li> </ul>		Evaluate their own products and ideas against criteria and user	the design, manufacture, functionality and fitness for purpose.	<ul> <li>Evaluate the final product with reference back to the design brief and design specification</li> </ul>
				the user and whether it meets design criteria.	· Evaluate the ongoing work and the final product with	needs, as they design and make.	Consider the views of others to improve their work.	account the views of others when identifying improvements.
	Evaluate				reference to the design criteria and the views of others.		<ul> <li>Investigate famous manufacturing and engineering companies relevant to the project.</li> </ul>	· Understand how key chefs have influenced eating habits to promote varied and healthy
			Can say whether a product meets its	Can explain how their product meets or fails to meet a design brief	Can evaluate the choices they made when designing a	Using a specific design brief, evaluate a range of existing products 2	Evaluate the effectiveness of their own design plans - Can the design plans be easily followed?	Can evaluate the success of a product against their own design brief & make appropriate
			purpose	and any many start product moote or take to moot a deargin shell	product (methods, techniques, materials etc)	make conclusions about which would be the most successful		how to improve the product/design
			"The trailer worked because the wheels went					
			round & my low fitted"					
		Teach different techniques for joining materials		Explore and use sliders and levers. • Understand that different mechanisms produce different types of movement.	<ul> <li>Know how to use appropriate equipment and utensils to prepare and combine food.</li> </ul>	<ul> <li>Understand and use lever and linkage mechanisms.</li> <li>Distinguish between fixed and loose pivots.</li> </ul>	Understand that mechanical systems have an input, process and an output.     Understand how cams can be used to produce different types of movement and change the	<ul> <li>Know how to use utensits and equipment including heat sources to prepare and cook for</li> <li>Understand about seasonality in relation to food products and the source of different foo</li> </ul>
		materials		<ul> <li>Understand that different mechanisms produce different types of movement.</li> <li>Know and use technical vocabulary relevant to the project.</li> </ul>	<ul> <li>Know about a range of fresh and processed</li> </ul>	<ul> <li>Distinguish between fixed and loose pivots.</li> <li>Know and use technical vocabulary relevant to the project.</li> </ul>	<ul> <li>Understand how cams can be used to produce different types of movement and change the direction of movement.</li> </ul>	<ul> <li>Understand about seasonality in relation to food products and the source of different foor</li> <li>Know and use relevant technical and sensory vocabulary.</li> </ul>
				renow and use identifican recording renovalit to the project.	ingredients appropriate for their product, and whether	relevant to the project.	Know and use technical vocabulary relevant to the project.	renow and use renovani common and senadi y vocabulidi y.
	Technical			1	they are grown, reared or caught.		,	
	Knowledge							
					Know and use relevant technical and sensory			
			Cut init finishing fixed free moving device make	Design criteria, design brief, function, base, structure, framework, utensils (& names), healthy, diet,		Adhesive, scoring, components	Annotated drawings, exploded diagrams, mechanical, input, process, output, functionality, innovation, reinforce,	Scale, modify, allergy, intolerance, source, seasonality, knead, whisk, beat, roll-out

					Tall Oaks Academy Trust Progressi	on Map for DT SPRING TERM		
Year/Term		EYFS			3			
			and other users based on design criteria	design purposeful, functional, appealing products for themselves and other users based on design criteria		innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups	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	products that are fit for purpose, aimed at particular individuals or groups
			communicate their ideas through talking, drawing, templates and mock-ups	generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	through discussion, annotated	generate, develop, model and communicate their ideas through discussion, annotated	generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes	generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
				select from and use a range of tools safely and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]	sketches, prototypes, pattern pieces, select from and use a wider range of tools and equipment to perform practical tasks (for example,	select from and use a wider range of tools and equipment to perform	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,	select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
			explore a range of existing products	select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	cutting, shaping, joining and finishing], accurately	accurately	textiles and ingredients, according to their functional properties and aesthetic qualities investigate and analyse a range of existing products	textiles and ingredients, according to their functional properties and aesthetic qualities investigate
National Cu	rriculum		explore and use mechanisms [for example wheels and axies] in their products	explore and evaluate a range of existing products	and ingredients, according to their functional properties	to their functional properties and aesthetic qualities investigate and	evaluate their ideas and products against their own design criteria and consider the views of others to improve their work	analyse a range of existing products evaluate their ideas and products against their own design criteria and consider the
				evaluate their ideas and products against design criteria build structures, exploring how they can be made stronger, stiffer and more stable	and aesthetic qualities investigate a range of existing products	analyse a range of existing products evaluate their ideas and products against their own design criteria	understand how key events and individuals in design and technology have helped shape the world	views of others to improve their work understand how key events and individuals in design and technology have helped shape the work
				explore and use mechanisms [for example, levers, sliders, wheels and axies] in their products	evaluate their ideas and products against their own design criteria	understand how key events and individuals in design and technology have helped shape the world	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]	understand and apply the principles of a healthy and varied diet (seasonality)
				use the basic principles of a healthy and varied diet to prepare dishes	understand how key events and individuals in design and technology have helped shape the world	apply their understanding of how to strengthen, stiffen and reinforce	understand and use electrical systems in their products [for example, series circuits incorporating	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
				understand where food comes from	understand and apply the principles of a healthy and varied diet	understand and use mechanical systems in their products flor	switches, bulbs, buzzers and motors] apply their understanding of computing to program, monitor and control their products	understand seasonality, and know where and how a variety of ingredients are grown, reared, caugi and processed.
	Prior		<ul> <li>Assembled vehicles with moving wheels using construction kits.</li> <li>Explored moving vehicles through play.</li> <li>Gained some experience of designing,</li> </ul>	Experience of using construction kits to build walls, towers and frameworks.     Experience of using of basic tools e.g. scissors or hole punches with construction materials e.g. plastic, card.     Experience of different methods of joining card and paper.	levers, and simple structures. - Learnt how materials can be joined to allow movement. - Joined and combined materials using simple tools and	techniques with paper and card. • A basic understanding of 2-D and 3-D shapes in mathematics and the physical properties and everyday uses of materials in science.	Experience of axies, axie holders and wheels that are fixed or free moving.     Basic understanding of electrical circuits, simple switches and components.     Experience of cutting and joining techniques with a range of materials including card, plastic and wood.	Experience of basic stitching, joining textiles and finishing techniques.     Experience of making and using simple pattern pieces.
	Learning		making and evaluating products for a specified user and purpose. • Developed some cutting, joining and		techniques.		An understanding of how to strengthen and stiffen structures.	
	Burlins			- Generate Ideab based on simple design ortheria and their own experiences, explaining with the oroxid make.     - explaining with the oroxid make and communicate their ideas through talking, mock-ups and drawings.		discussion, focusing on the needs of the user and purpose of the product. • Develop ideas through the analysis of existing products and use	<ul> <li>Ceretaria involutive ideas by carrying out research using surveys, interviews, questionnaires and websited features in specification by due the thirthinking.</li> <li>Develop and communicate ideas through discussion, annotated drawings, exploded drawings and drawings from different views.</li> </ul>	- Generation involutive does by carrying out research including survey, interviews and questions     - Generation involutive does by carrying out research including survey, interviews and questions     - Beeging numbers, and the expendition of the survey of the interview of the survey of th
				Can explain how their design will fulfil a purpose by referring back to the brief (What i it? Who is it for? What should it do?)	3	Create & follow a design brief from given information about the intended user		Design, using their own research, a product which is aimed at a specific group or individual
Curriculum Areas covered Skills / Knowledge		Use a range of tools to create	equipment to perform practical tasks such as	Select and use tools, skills and techniques, explaining their choices.     Select new and reclaimed materials and construction kills to build their structures.     Use simple finishing techniques suitable for the structure they are creating.	<ul> <li>Order the main stages of making.</li> <li>Select from alue appropriate tools with some accuracy to cut and join materials and components such as tubing, syringes and balloors.</li> <li>Select from and use finishing techniques suitable for the product they are creating.</li> </ul>	shape and assemble with some accuracy.	Produce detailed is a floots, equipment and materials. Formulate step-by-step plans and, if appropriate, success that within a team. Select from and use a range of loots and equipment to make products that that are accurately assembled and well finaled. Work within the constraints of time, resources and cost.	Produce detailed fails of equipment and fails reviewed to their tasks.     Frondule step-Systep plans and, flagsprojide, alcohal tasks within a team.     Select from and use a range of tools and equipment to make products that are accurately assem     and est finated. Work within the constraints of time, resources and cost.
			Can use simple tools & equipment appropriately & safely for a specific purpose (cuttion, ioining)		Can use a wider range of tools & equipment appropriately & safely for a specific purpose, with some accuracy (maseuring, cutting, ioining)		Can use a wider range of tools & equipment appropriately & safely for a specific purpose, with precision (measuring, cutting, joining)	
		Return to and build on their previous learning, refining ideas and developing their ability to represent them. Discuss problems and how they might be schuse	<ul> <li>Explore and evaluate a range of products with wheels and axies.</li> <li>Evaluate their ideas throughout and their products against original criteria.</li> </ul>	- Explore a range of existing freestanding structures in the school and local environment e.g. everyday products and buildings.     - Evaluate their product by discussing how well it works in relation to the purpose, the user and whether it meets the original design criteria.	with pneumatic mechanisms.	including the materials, components and techniques that have been used.		
			Can say whether a product meets its purpose "The trailer worked because the wheels went round & my toy fitted"		product (methods, techniques, materials etc)	make conclusions about which would be the most successful		Can evaluate the success of a product against their own design brief & make appropriate sugges of how to improve the product/design
			holders. Distinguish between fixed and freely moving axles. Know and use technical vocabulary relevant	Know how to make freestanding structures stronger, stiffer and more stable.     Know and use technical vocabulary relevant to the project.	Understand and use pneumatic mechanisms.     Know and use technical vocabulary relevant to the project.	<ul> <li>bevelop and use knowledge of nets of cubes and cuboids and,</li> </ul>	<ul> <li>Understand that mechanical and electrical systems have an input, process and an output.</li> <li>Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement.</li> <li>Know and use technical vocabulary relevant to the project.</li> </ul>	<ul> <li>- A 3-D textile product can be made from a combination of accurately made pattern pieces, fabri shapes and different fabrics.</li> <li>- Fabrics can be strengthened, stiffened and reinforced where appropriate.</li> </ul>
	Technical		to the noniect Cut, join, finishing, fixed, free, moving, design, make, evaluate, purpose, user, techniques, tools, template, mark out, suitable, quality, product	Design oriteria, design brief, function, base, structure, framework, utensils (& names), healthy, diet, balanced, ingredients	Measure, carbohydrates, fats, proteins, vitamins, minerals		Annotated drawings, exploded diagrams, mechanical, input, process, output, functionality, innovation, reinforce, prototype, precision	Scale, modify, allergy, intolerance, source, seasonality, knead, whisk, beat, roli- out

Year/Ter		_	EVES			Tall Oaks Academy Trust Progression			
Year/Ter	m			1	2	3	4	5	6
				design functional products for themselves and other users based on design criteria	design purposeful, functional, appealing products for themselves and other users based on design criteria		innovative, functional, appealing products that are fit for purpose,	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	use research and develop design criteria to inform the design of innovative, functional, appear products that are fit for purpose, aimed at particular individuals or groups
				communicate their ideas through talking, drawing, templates and mock-ups select from and use a range of tools safely	generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	for purpose, aimed at particular individuals or groups generate, develop, model and communicate their ideas through discussion, annotated sketches, prototypes, pattern pieces,	armed at particular individuals or groups generate, develop, model and communicate their ideas through discussion, annotated sketches, prototypes, computer-aided design	generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes select from and use a wider range of tools and equipment to perform practical tasks [for	generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
				and equipment to perform practical tasks	select from and use a range of tools safely and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]		select from and use a wider range of tools and equipment to	select from and use a worder range or tools and equipment to perform practical tasks (for example, cutfing, shaping, joining and finishing), accutately select from and use a wider range of materials and components, including construction	select from and use a wider range of tools and equipment to perform practical tasks [for exa cutting, shaping, joining and finishing], accurately
Nati	tional Curriculum			explore a range of existing products explore and use mechanisms [for example	select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	cutting, shaping, joining and finishing], accurately	finishing], accurately select from and use a wider range of materials and components,	sector instituted and a finance tangle on machinals and obligation and any post-and additional and a state of the sector and the sector and the sector and the sector additional additionadditionaddita	select from and use a wider range of materials and components, including construction ma texilies and ingredients, according to their functional properties and aesthetic qualities inve and analyse a range of existing products
				wheels and axles] in their products	explore and evaluate a range of existing products evaluate their ideas and products against design criteria	properties and aesthetic qualities investigate a	including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities 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	evaluate their ideas and products against their own design criteria and consider the views of others to improve their work
					build structures, exploring how they can be made stronger, stiffer and more stable	range of existing products	evaluate their ideas and products against their own design criteria	understand how key events and individuals in design and technology have helped shape the world	understand how key events and individuals in design and technology have helped shape th
					explore and use mechanisms [for example, levers, sliders, wheels and axies] in their products	-	understand how key events and individuals in design and technology have helped shape the world	apply their understanding of how to strengthen, stiffen and reinforce more complex structures	understand and apply the principles of a healthy and varied diet (seasonality)
					use the basic principles of a healthy and varied diet to prepare dishes	understand how key events and individuals in design and technology have helped shape the world	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] understand and use electrical systems in their products [for example, series circuits incorporating	prepare and cook a variety of predominantly savoury dishes using a range of cooking techn understand seasonality, and know where and how a variety of ingredients are grown, reare
					understand where food comes from	understand and apply the principles of a healthy and	undomtand and use mechanical contemp in their preducts ffer	switches, bulbs, buzzers and motors]	and processed.
		Prior earning		Explored and used different fabrics.     Out and joined fabrics with simple techniques.     Thought about the user and purpose of products.	Experience of common fruit and vegetables, undertaking sensory activities i.e. appearance task and smell.     Experience of cutting soft fruit and vegetables using appropriate utensils.	Have joined fabric in simple ways by gluing and stitching.     Have used simple patterns and templates for marking out.     Have evaluated a range of textile products.	Experience of using different joining, cutting and finishing techniques with paper and card.     A basic understanding of 2-D and 3-D shapes in mathematics and the physical properties and everyday uses of materials in science.     Familiarity with general ourcose software that can be used to	- Experience of using measuring, marking out, cutting, joining, shaping and finishing techniques with construction materials.     - Basic understanding of what structures are and how they can be made stronger, stiffer and more stable.	Experience of sitching, joiring and finishing techniques in testiles.     Experience of making and using testiles pattern pieces.     Experience of simple computer-aided design applications.
		Design	which materials to use to express them. Draw with increasing complexity and detail	for a chosen user and purpose based on simple design criteria.	Design appealing products for a particular user based on simple design criteria.     Centrate initial ideas and design criteria through investigating a variety of fruit and vegetables.     Communicate these ideas through talk and drawings.	<ul> <li>Generate realistic ideas through discussion and design criteria for an appealing, functional product fit for purpose and specific user/s.</li> <li>Produce annotated sketches, prototypes, final product sketches and pattern pieces.</li> </ul>	· Generate realistic ideas and design criteria collaboratively through	<ul> <li>Cany out research into user needs and existing products, using surveys, interviews, questionmaires and web-based resources.</li> <li>Develop a animpic design specification to guide the development of their ideas and products, basing account of constraintifs including time, resources and cost.</li> <li>Section and model invalues local, should account, prototypes and annotated exist interview.</li> </ul>	Generate innovative ideas through research including surveys, interviews and questionn Develop, model and communicate ideas through talking, drawing, templates, mock-ups protropes including using computer-ideal ded design. Design purposelul, functions, appealing products for the intended user that are fit for pur based on a simple design specification.
				ups and information and communication	Can explain how their design will fulfil a purpose by referring back to the brief (What		Create & follow a design brief from given information about the		Design, using their own research, a product which is aimed at a specific group or individu
		t	extures Use a range of tools to create	Select from and use a range of tools and equipment to perform practical tasks such as marking out, cutting, joining and finishing.     Select from and use textiles according to their characteristics.		<ul> <li>Plan the main stages of making.</li> <li>Select and use a range of appropriate tools with some accuracy e.g. cutting, joining and finishing.</li> <li>Select fabrics and fasternings according to their functional characteristics e.g. strength, and aesthetic qualities e.g. pattern.</li> </ul>	Intended user - Plan the order of the main stages of making. - Select and use appropriate tools and software to measure, mark out, cut, core, shape and assemble with some accuracy. - Explain their choice of materials according to functional properties and aesthetic qualities. - Use computer generated finishing techniques suitable for the	· Competently select from and use appropriate tools to accurately measure, mark out, cut, shape	accurately assembled and well finished. Work within the constraints of time, resources an
Currice Areas co				Can use simple tools & equipment appropriately & safely for a specific purpose (cutting, joining)		Can use a wider range of tools & equipment appropriately & safely for a specific purpose, with some accuracy (measuring, cutting, joining)		Can use a wider range of tools & equipment appropriately & safely for a specific purpose, with precision (measuring, cutting, joining)	
Skill Knowk	owledge	i zaluate	earning, refining ideas and developing their ability to represent them.	textile products relevant to the project being undertaken.	<ul> <li>Taste and evaluate a range of fuit and vegetables to determine the intended user's preference.</li> <li>Evaluate ideas and thished products against design criteria, including intended user and purpose.</li> </ul>	Investigate a range of 3-0 textile products relevant to the project.     Test their product against the original design criteria and with the intended user.     Take into account others' views.     Understand how a key eventifindividual has influenced the development of the chosen product	Investigate and evaluate a range of shell structures including the materialis, components and techniques that have been used Test and evaluate their own products against design criteria and the intended user and purpose.	· Critically evaluate their products against their design specification, intended user and purpose,	• Investigate and analyse table products linked to their final product. • Compare the final product to the original design specification. • Test products with intended user, where sale and practical, and critically evaluate the qu • Consider the views of others to improve their work. • Consider the views of others to improve the views of others to impro
				Can say whether a product meets its purpose "The trailer worked because the wheels went round & my low fitted"	Can explain how their product meets or fails to meet a design brief		Using a specific design brief, evaluate a range of existing products & make conclusions about which would be the most successful	Evaluate the effectiveness of their own design plans – Can the design plans be easily followed?	Can evaluate the success of a product against their own design brief & make appropriate suggestions of how to improve the product/design
				<ul> <li>Understand how simple 3-D totile products are made, using a tempate to create two identical shapes.</li> <li>Understand how to join fabrics using different techniques e.g. running stich, giue, over stick, stapling.</li> <li>Explore different finishing techniques e.g. using painting, hothic carayons, stiching, sequins, buttons and ribbons.</li> <li>Know and use technical vocabulary</li> </ul>	<ul> <li>Understand where a range of full and wagehables come fore e.g. farmed or grown at nome.</li> <li>Understand and use basic principles of a healthy and varied det to prepare dishes, including how full and equidables are part for healtent plans.</li> <li>"How and use horizonal and sensory woodshary relevant to the project.</li> </ul>	existing fabrics.	-Develop and use knowledge of nets of cubes and cuboids and, where appropriate more complex 30 shapes.     -Develop and use knowledge of how to construct strong, still shell assessment of the strong strong still shell assess -Reveal and use technical vocabulary relevant to the project.	Understand how to strengthen, stiffen and reinforce 3.0 frameworks.     Know and use technical vocabulary relevant to the project.	<ul> <li>A 3D behilds product can be mude from a combination of accurately made pattern piece adapears and different blanci.</li> <li>Fabrics can be strengthened, stiffered and reinforced where appropriate.</li> </ul>
		echnical cabulary		Cut, join, finishing, fixed, free, moving, design, make, evaluate, purpose, user, techniques, tools, template, mark out, suitable, quality, product	Design onteria, design brief, function, base, structure, tramework, utensils (& names), healthy, diet, balanced, ingredients	Measure, carbohydrates, fats, proteins, vitamins, minerals	Adhesive, scoring, components	Annotated drawings, exploded diagrams, mechanical, input, process, output, functionality, innovation, reinforce, prototype, precision	Scale, modify, allergy, intolerance, source, seasonality, knead, whisk, beat, roll-out