Tall Oaks Academy Trust Progression Map for DT AUTUMN TERM

	Tean Term		EYFS						
	National Curr			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		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, 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
				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	generate, develop, model and communicate their ideas 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	sketches, prototypes, computer-aided design select from and use a wider range of tools and equipment 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 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	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 investigate	select from and use a wider range of materials and components, including construction materials,
		riculum		explore and use mechanisms [for example wheels and axles] in their products	construction materials, textiles and ingredients, according to their characteristics explore and evaluate a range of existing products			evaluate their ideas and products against their own design criteria and consider the	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 design criteria	and ingredients, according to their functional properties and aesthetic qualities investigate a range of existing products	to their functional properties and aesthetic qualities investigate and analyse a range of existing products	views of others to improve their work understand how key events and individuals in design and technology have helped shape the world	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	evaluate their ideas and products against their own	evaluate their ideas and products against their own design criteria	apply their understanding of how to strengthen, stiffen and reinforce more complex structures	understand how key events and individuals in design and technology have helped shape the world
					explore and use mechanisms [for example, levers, sliders, wheels and axies] in their products	design criteria understand how key events and individuals in design	understand how key events and individuals in design and technology have helped shape the world	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) prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
					use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from	and technology have helped shape the world	apply their understanding of how to strengthen, stiffen and reinforce more complex structures	understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]	understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.
					understand where rood comes from	understand and apply the principles of a healthy and			and processed.
Autumn		Prior Learning	Baseline completed within first two weeks.		 Early experiences of working with paper and card to make simple flaps and hinges. Experience of simple cutting, shaping and joining skills using scissors, glue, paper fasteners and masking tape. 	hygienically. - Have some basic knowledge and understanding about healthy eating and The eatwell plate. - Have used some equipment and utensits and	 Explored and used mechanisms such as flaps, sliders and levers. Gained experience of basic outling, joining and finishing techniques with paper and card. 	Experience of axles, axle holders and wheels that are fixed or free moving.	 Have knowledge and understanding about food hygiene, nutrition, healthy eating and a varied diet. Be able to use appropriate equipment and utensits, and apply a range of techniques for measuring out, preparing and combining highesterists.
	Curriculum Areas covers Skills / Knowledge		Explore different materials freely, to develop their ideas about how to use them and what		Generate ideas based on simple design criteria and their own experiences, explaining what they could make.	prepared and combined ingredients to make a • Generate and clarify ideas through discussion with peers and adults to develop design criteria including	Generate realistic ideas and their own design criteria through	Generate innovative ideas by carrying out research using surveys, interviews, questionnaires and web-based resources.	Generate innovative ideas through research and discussion with peers and adults to develop a design brief and criteria for a design specification.
			to make. Draw with increasing complexity and detail			appearance, taste, texture and aroma for an appealing product for a particular user and purpose. - Use annotated sketches and appropriate information and communication technology, such as web-based recipes, to develop and communicate ideas.	 Use annotated sketches and prototypes to develop, model and communicate ideas. 	Develop a simple design specification to guide their thinking. Develop and communicate ideas through discussion, annotated drawings, exploded drawings and drawings from different views.	Design on which will obtain an obtained and the design decisions to develop a final product linked to user and purpose. 1 be words, annotated skelches and information and communication technology as appropriate to develop and communicate ideas.
					Can explain how their design will fulfil a purpose by referring back to the brief (What is it? Who is it for?) What should it do?)		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
			Join different materials and explore different textures		Plan by suggesting what to do next. Select and use tools, explaining their choices, to cut, shape and join paper and learn.	Plan the main stages of a recipe, listing ingredients, utensils and equipment. Select and use appropriate utensils and equipment.		 Produce detailed lists of tools, equipment and materials. Formulate step-by-step plans and, if appropriate, allocate tasks within a team. Select from and use a range of tools and equipment to make products that that are accurately 	 Write a step-by-step recipe, including a list of ingredients, equipment and utensils Select and use appropriate utensils and equipment accurately to measure and combine appropriate incredients
		Make	Use a range of tools to create		- Use simple finishing techniques suitable for the product they are creating.	to prepare and combine ingredients. • Select from a range of ingredients to make appropriate food products, thinking about sensory	Select from and use finishing techniques suitable for the product they are creating.	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 purpose.
				Can use simple tools & equipment appropriately & safely for a specific purpose (cutting lighting)		Can use a wider range of tools & equipment appropriately & safely for a specific purpose, with		Can use a wider range of tools & equipment appropriately & safely for a specific purpose, with precision (measuring, cutting, joining)	
		Evaluate	Discuss preferences, likes/dislikes Discuss similarities and differences		Explore a range of existing books and everyday products that use simple sliders and levers. Evaluate their product by discussing how well it works in relation to the purpose and the user and whether it meets design criteria.	Carry out sensory evaluations of a variety of ingredients and products. Record the evaluations using e.g. tables and simple graphs. Evaluate the ongoing work and the final product with reference to the design criteria and the views of	Investigate and analyse books and, where available, other products with lever and linkage mechanisms. Evaluate their own products and ideas against criteria and user needs, as they design and make.	 Compare the final product to the original design specification. Test products with the intended user, where safe and practical, and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose. Consider the views of others to improve their work. Westigate famous manufacturing and engineering companies relevant to the project. 	 Carry out sensory evaluations of a range of relevant products and ingredients. Record the evaluations using eq. tables/egraphicharts such as star diagrams. Evaluate the final product with reference back to the design brief and design specification, taking int account the views of others when identifying improvements. Undestand how key chefs have influenced eating habits to promote varied and healthy diets.
				Can say whether a product meets its purpose "The trailer worked because the wheels went round & my for fifted"	Can explain how their product meets or fails to meet a design brief	Can evaluate the choices they made when designing a product (methods, techniques, materials etc)	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
		Technical Knowledge	Teach different techniques for joining materials		Explore and use sliders and levers. - Understand this different exchanisms produce different types of movement. - Know and use technical vocabulary relevant to the project.	Know how to use appropriate equipment and utensits to prepare and combine food. Know about a range of fresh and processed ingredients appropriate for their product, and whether they are grown, reared or caught. Know and use relevant technical and sensory.	Understand and use lever and linkage mechanisms. Distinguish between fixed and loose pivots. Know and use technical vocabulary relevant to the project.	 Understand that mechanical systems have an input, process and an output. Understand how came can be used to produce different types of movement and change the direction of movement. Know and use technical vocabulary relevant to the project. 	*Know how to use utersitis and equipment including heat sources to prepare and cook food. *Understand able associality in relation to food products and the source of different food products. *Know and use relevant technical and sensory vocabulary.
		Technical vocabulary		Cut, join, finishing, fixed, free, moving, design, make, evaluate, purpose, user, techniques, tools, template, mark out, suitable, quality, product	Design criteria, design brief, function, base, structure, framework, utensits (& names), healthy, diet, ballanced, ingredients	Measure, carbohydrates, fats, proteins, vitamins, minerals	Adhesive, scoring, components	Annotated drawings, exploded diagrams, mechanical, input, process, output, functionality, innovation, reinforce, prototype, practision	Scale, modify, allergy, intolerance, source, seasonality, knead, whisik, beat, roll-out

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Tall Oaks Academy Trust Progression Map for DT SPRING TERM

	Year/Term								6
								use research and develop design criteria to inform the design of innovative, functional, appealing	
				and other users based on design criteria	based on design criteria			products that are fit for purpose, aimed at particular individuals or groups	products that are fit for purpose, aimed at particular individuals or groups
						aimed at particular individuals or groups	aimed at particular individuals or groups		generate, develop, model and communicate their ideas through discussion, annotated
					generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication		generate, develop, model and communicate their ideas through	generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes	generate, develop, model and communicate their locals through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and
				drawing, templates and mock-ups	technology	through discussion, annotated	discussion, annotated	sketches, cross-sectional and exploded diagrams, prototypes	computer-aided design
				select from and use a range of tools safely			sketches, prototypes, computer-aided design	select from and use a wider range of tools and equipment to perform practical tasks [for	
					select from and use a range of tools safely and equipment to perform practical tasks			example, cutting, shaping, joining and finishing), accurately	select from and use a wider range of tools and equipment to perform practical tasks [for example,
				[for example, cutting, shaping and joining]	[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		cutting, shaping, joining and finishing), accurately
				l		equipment to perform practical tasks [for example,		select from and use a wider range of materials and components, including construction	
				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	finishing], accurately	investigate and analyse a range of existing products	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, investigate
	National Cur	riculum		explore and use mechanisms (for example	construction materials, tource and ingredients, according to aren entracerates	select from and use a wider range of materials and	select from and use a wider range of materials and components,		and analyse a range of existing products
				wheels and axles) in their products	explore and evaluate a range of existing products	components, including construction materials, textiles	including construction materials, textiles and ingredients,	evaluate their ideas and products against their own design criteria and consider the	
							according to their functional properties and aesthetic qualities	views of others to improve their work	evaluate their ideas and products against their own design criteria and consider the
					evaluate their ideas and products against design criteria	and aesthetic qualities investigate a range of existing products	investigate and analyse a range of existing products		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	understand how key events and individuals in design and technology have helped shape the	understand how key events and individuals in design and technology have helped shape the world
					build structures, exploring flow they can be made stronger, samer and more statute	evaluate their ideas and products against their own	character and produces against their own design enteral	NOTE TO SECULATE THE SECULATION OF THE SECURATION OF THE SECURATIO	and stated now key events and manages in design and technology have negled shape the world
					explore and use mechanisms (for example, levers, sliders, wheels and axles) in their		understand how key events and individuals in design and	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)
					products		technology have helped shape the world		
						understand how key events and individuals in design		understand and use mechanical systems in their products [for example, gears, pulleys, cams]	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
					use the basic principles of a healthy and varied diet to prepare dishes	and technology have helped shape the world	apply their understanding of how to strengthen, stiffen and reinforce more complex structures	understand and use electrical systems in their products (for example, series circuits incorporating	understand seasonality, and know where and how a variety of ingredients are grown, reared, caught
					understand where food comes from	understand and apply the principles of a healthy and	Turnorda mare comprex as decides	switches, bulbs, buzzers and motors]	and processed.
				Assembled vehicles with moving wheels	Experience of using construction kits to build walls, towers and frameworks.	Explored simple mechanisms, such as sliders and	Experience of using different joining, outling and finishing	Experience of axies, axie holders and wheels that are fixed or free moving.	Experience of basic stitching, joining textiles and finishing techniques.
				using construction kits.		levers, and simple structures.	techniques with paper and card.	Basic understanding of electrical circuits, simple switches and components.	Experience of basic sticking, joining textiles and finishing recriniques. Experience of making and using simple pattern pieces.
				Explored moving vehicles through play.	materials e.g. plastic, card.	Learnt how materials can be joined to allow	A basic understanding of 2-D and 3-D shapes in mathematics	Experience of cutting and joining techniques with a range of materials including card, plastic	
		Prior Learning		Gained some experience of designing,	 Experience of different methods of joining card and paper. 		and the physical properties and everyday uses of materials in	and wood.	
		Learning		making and evaluating products for a specified user and purpose.		 Joined and combined materials using simple tools and techniques. 	science.	An understanding of how to strengthen and stiffen structures.	
				Developed some cutting, joining and		and reuniques.			
			Develop their own ideas and then decide	Generate initial ideas and simple design	Generate ideas based on simple design criteria and their own experiences,	Generate realistic and appropriate ideas and their	Generate realistic ideas and design criteria collaboratively	Generate innovative ideas by carrying out research using surveys, interviews, questionnaires	Generate innovative ideas by carrying out research including surveys, interviews and
Spring	,		which materials to use to express them.	criteria through talking and using own	explaining what they could make.		through discussion, focusing on the needs of the user and	and web-based resources.	questionnaires
				experiences.	Develop, model and communicate their ideas through talking, mock-ups and	needs of the user.	purpose of the product.	Develop a simple design specification to guide their thinking.	Develop, model and communicate ideas through talking, drawing, templates, mock-ups and
			Draw with increasing complexity and detail	Develop and communicate ideas through	drawings.	Use annotated sketches and prototypes to develop, model and communicate ideas.	Develop ideas through the analysis of existing products and use annotated sketches and prototypes to model and communicate	Develop and communicate ideas through discussion, annotated drawings, exploded drawings and drawings from different views.	prototypes and, where appropriate, computer-aided design.
		Design	Create collaboratively, sharing ideas,	drawings and mock-ups.		model and communicate ideas.	annotated sketches and prototypes to model and communicate	and drawings from different views.	 Design purposeful, functional, appealing products for the intended user that are fit for purpose based on a simple design specification.
			resources and skills.				nuclea.		based on a simple design specimenton.
					Can explain how their design will fulfil a purpose by referring back to the brief (What is it? Who is it for? What should it do?).		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
			Join different materials and explore different	Select from and use a range of tools and		Order the main stages of making.	Order the main stages of making.	· Produce detailed lists of tools, equipment and materials. Formulate step-by-step plans and, if	Produce detailed lists of equipment and fabrics relevant to their tasks.
			textures	equipment to perform practical tasks such	 Select and use tools, skills and techniques, explaining their choices. 	Select from and use appropriate tools with some	Select and use appropriate tools to measure, mark out, cut,	appropriate, allocate tasks within a team.	 Formulate step-by-step plans and, if appropriate, allocate tasks within a team.
	Curriculum		Use a range of materials to construct	as cutting and joining to allow movement and finishing.	Select new and reclaimed materials and construction kits to build their structures. Use simple finishing techniques suitable for the structure they are creating.	accuracy to cut and join materials and components such as tubing, syringes and balloons.	score, shape and assemble with some accuracy.	Select from and use a range of tools and equipment to make products that that are accurately assembled and well finished. Work within the constraints of time, resources and cost.	 Select from and use a range of tools and equipment to make products that are accurately assembled and well finished. Work within the constraints of time, resources and cost.
	Areas covered	Make	Osc a range or materials to construct	Select from and use a range of materials	ose simple intuining techniques sensible for the structure they are dreamy.	Select from and use finishing techniques suitable for		assembled and wen mission. Work want the constraints of time, resources and cost.	assumpted and well initiated. From water the constraints of time, resources and cost.
	Skills /	маке	Use a range of tools to create	and components such as paper, card,		the product they are creating.	Use finishing techniques suitable for the product they are		
	Knowledge			plastic and wood according to their			creating.		
				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 (cutting inining)		appropriately & safely for a specific purpose, with some		precision (measuring, cutting, joining)	
			Return to and build on their previous	Explore and evaluate a range of products	Explore a range of existing freestanding structures in the school and local	Investigate and analyse books, videos and products	Investigate and evaluate a range of existing shell structures	Compare the final product to the original design specification.	Investigate and analyse textile products linked to their final product.
			learning, refining ideas and developing their		environment e.g. everyday products and buildings.	with pneumatic mechanisms.	including the materials, components and techniques that have	Test products with intended user and critically evaluate the quality of the design, manufacture,	Compare the final product to the original design specification.
			ability to represent them.		 Evaluate their product by discussing how well it works in relation to the purpose, the user and whether it meets the original design criteria. 	 Evaluate their own products and ideas against criteria and user needs, as they design and make. 	Test and evaluate their own products against design criteria and	functionality and fitness for purpose.	 Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose.
		Evaluate	Discuss problems and how they might be	products against original criteria.	are used unto whether it meets the original occupit circuit.	and dad needs, as they design and make.	the intended user and purpose.	Investigate famous manufacturing and engineering companies relevant to the project.	Consider the views of others to improve their work.
				Can say whether a product meets its	Can explain how their product meets or fails to meet a design brief	Can evaluate the choicer they made when decigning a	Using a specific design brief evaluate a range of existing products	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 a product media or talla to media di delagri siteli	product (methods, techniques, materials etc)	& make conclusions about which would be the most successful		suggestions of how to improve the product/design
				"The trailer worked because the wheels					
			Use different techniques for joining		Know how to make freestanding structures stronger, stiffer and more stable.	Understand and use pneumatic mechanisms.	Develop and use knowledge of how to construct strong, stiff shell	Understand that mechanical and electrical systems have an input, process and an output.	A 3-D textile product can be made from a combination of accurately made pattern pieces, fabric
		Technical	materials for different purposes	holders.	Know and use technical vocabulary relevant to the project.	Know and use technical vocabulary relevant to the	structures.	Understand how gears and pulleys can be used to speed up, slow down or change the	shapes and different fabrics.
		Knowledge		Distinguish between fixed and freely moving axles.		project.	Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes.	direction of movement. -Know and use technical vocabulary relevant to the project.	Fabrics can be strengthened, stiffened and reinforced where appropriate.
		90		Know and use technical vocabulary			Know and use technical vocabulary relevant to the project.	Torow and use scenifical vocabulary relevant to the project.	
		Westerle 1		and an own of the distance of the second	Design criteria, design brief, function, base, structure, framework, utensils (& names), healthy, diet,	Measure, carbohydrates, fats, proteins, vitamins, minerals	Adhesive, scoring, components	Annotated drawings, exploded diagrams, mechanical, input, process, output, functionality, innovation, reinforce,	Scale, modify, allergy, intolerance, source, seasonality, kneed, whisk, beat, roll-out
		Technical vocabulary		evaluate, purpose, user, techniques, tools, template,	balanced, ingredients	, and a process of the same of		prototype, precision	and the same of th

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Tall Oaks Academy Trust Progression Map for DT SUMMER TERM

	Year/Term		EYFS						
					design purposeful, functional, appealing products for themselves and other users based on design criteria	innovative, functional, appealing products that are fit	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, appealing 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		generate, develop, model and communicate their ideas through	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
					technology select from and use a range of tools safely and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]	ideas through discussion, annotated sketches, prototypes, pattern pieces, select from and use a wider range of tools and	discussion, annotated sketches, prototypes, computer-aided design select from and use a wider range of tools and equipment to	select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately	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
				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	equipment to perform practical tasks [for example,		select from and use a wider range of materials and components, including construction	select from and use a wifer range of materials and components, including construction materials, textiles and incredients, according to their functional properties and aesthetic qualities investigate
	National Curr	riculum		explore and use mechanisms [for example wheels and axles] in their products	explore and evaluate a range of existing products	components, including construction materials,		evaluate their ideas and products against their own design criteria and consider the	and 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	properties and aesthetic qualities investigate a range of existing products	and 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 world
					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 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		prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
				Explored and used different fabrics.	understand where food comes from Experience of common fruit and vegetables, undertaking sensory activities i.e.	understand and apply the principles of a healthy • Have joined fabric in simple ways by gluing and	reinforce more complex structures • Experience of using different joining, cutting and finishing	understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors) - Experience of using measuring, marking out, cutting, joining, shaping and finishing techniques	understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.
		Prior Learning		Cut and joined fabrics with simple techniques. Thought about the user and purpose of products.	Experience of cultimor that and vegetables, undertaking sensory accesses i.e. appearance tasks and small. Experience of cutting soft fruit and vegetables using appropriate utensits.	stitching. • Have used simple patterns and templates for marking out.	Experience of using different joining, counting and missing 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.	*Basic understanding of what structures are and how they can be made stronger, siffer and more stable.	- Experience of saxing, journing and making exclusings in rexures. - Experience of making and using trailled pattern pieces. - Experience of simple computer-aided design applications.
	-		Develop their own ideas and then decide		Design appealing products for a particular user based on simple design criteria.	Generate realistic ideas through discussion and		Carry out research into user needs and existing products, using surveys, interviews,	Generate innovative ideas through research including surveys, interviews and questionnaires.
Summer		Design		for a chosen user and purpose based on simple design criteria. • Generate, develop, model and communicate their ideas as appropriate	 Generate initial ideas and design criteria through investigating a variety of fruit and vegetables. Communicate these ideas through talk and drawings. 	for purpose and specific user/s. • Produce annotated sketches, prototypes, final	and aesthetic purposes of the product. Develop ideas through the analysis of existing shell structures	taking account of constraints including time, resources and cost.	Develop, model and communicate ideas through talking, drawing, templates, mock-ups and prototypes including using computer-aided design. Design purposeful, functional, appealing products for the intended user that are fit for purpose based on a simple design specification.
			Create collaboratively, sharing ideas, resources and skills	through talking, drawing, templates, mock- ups and information and communication		product assessing and pastern product.		sketches.	
					Can explain how their design will fulfil a purpose by referring back to the brief (What is it? Who is it for? What should it do?).		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
		Make	Join different materials and explore different textures 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. 	Use simple utensits and equipment to e.g. peel, cut, slice, squeeze, grate and chop safely. Select from a range of fruit and vegetables according to their characteristics e.g. colour, texture and taste to create a chosen product.	 Plan the main stages of making. Select and use a range of appropriate tools with some accuracy e.g. cutting, joining and finishing. Select fabrics and fastenings according to their functional characteristics e.g. strength, and aesthetic qualities e.g. pattern. 	- Plan the order of the main stages of making Select and use appropriate tools and software to measure, mark out, cut, score, 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		Produce detailed list of equipment and fabrics relevant to their tasks. Formulate step-year pairs and, if appropriate, allocate tasks within a team. Select from and use a range of tools and equipment, including CAD, to make products that are accurately assembled and well finished. Work within the constraints of time, resources and cost.
	Curriculum Areas covered			Can use simple tools & equipment appropriately & safely for a specific purpose (cutting initials)		Can use a wider range of tools & equipment appropriately & safely for a specific purpose, with		Can use a wider range of tools & equipment appropriately & safely for a specific purpose, with precision (measuring, cutting, joining)	
	Skills i Knowledge	Evaluate	ability to represent them.	textile products relevant to the project being undertaken. • Evaluate their ideas throughout and their final products against original design criteria.	 Evaluate ideas and finished products against design criteria, including intended user and purpose. 	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 eventificatividual has influenced the development of the chosen product	the intended user and purpose.	Critically evaluate their products against their design specification, intended user and purpose, identifying strengths and areas for development, and carrying out appropriate tests. Research key events and individuals relevant to frame structures.	* investigate and analyse testile products linked to the first linal product. - Compare the first grounds to the original design specification. - Test products with intended user, where safe and practical, and critically evaluate the quality of the - Consider the views of others to improve their work.
				Can say whether a product meets its purpose "The trailer worked because the wheels	Can explain how their product meets or fails to meet a design brief	Can evaluate the choices they made when designing a product (methods, techniques, materials etc)	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
			Select appropriate joining technique for the product they are creating	Understand how simple 3-D textile products are made, using a template to create two identical shapes. Understand how to join fabrics using different techniques e.g. running stitch, glue, over stitch, stapling. Explore different finishing techniques e.g	 Understand where a range of fruit and vegetables come from e.g. farmed or grown at home. Understand and use basic principles of a healthy and varied diet to prepare diables, including low fault and vegetables are part of the eathert plate. More and use technical and sensory vocabulary relevant to the project. 	existing fabrics. - Understand how to securely join two pieces of fabric together. - Understand the need for patterns and seam allowances. - Know and use technical vocabulary relevant to the	Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes. Develop and use knowledge of how to construct strong, stiff shell structures. Know and use technical vocabulary relevant to the project.		 A.3.0 built product can be made from a combination of accurately made pattern pieces, fabric dappes and different fabrics. Fabrics can be strengthened, stiffered and reinforced where appropriate.
				using painting, fabric crayons, stitching, sequins, buttons and ribbons. • Know and use technical vocabulary		project.	As a section of the s		
		Technical vocabulary		Out, join, finishing, fixed, free, moving, design, make, evaluate, purpose, user, techniques, tools, template, mark out, suitable, quality, product	Design criteria, design brief, function, base, structure, framework; utensils (& names), healthy, diet, balanced, ingredients	Measure, carbohydrates, fats, proteins, vitamins, minerals	Adhesive, scoring, components	Armotated drawings, exploded diagrams, mechanical, input, process, output, functionality, innovation, reinforce, prototype, precision	Scale, mosity, altergy, intolerance, source, seasonality, kneed, whisk, beat, roll-out

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