Progression of Knowledge and Vocabulary

	Learning (Objective		Substantial Knowledge (National Curriculum)	Skills	Technical Vocabulary * see long term plan for additional unit specific vocab
End of KS1	To master practical skills	Food	re To To To To To To To To To T	o know you follow a simple ecipe to make food. o know the name of utensils nd equipment needed for food. o know how to use utensils and quipment correctly. o know the principles of a ealthy and varied diet. (Eat well late). o know where food comes rom. o use the basic principles of a ealthy and varied diet to repare dishes.	Select from and use a range of tools and equipment to perform practical tasks. Select from and use a wide range of materials and components, including ingredients.	Recipe, utensils, instruction, peeler, grater, knife, rolling pin, Cut, peel, grate, ingredients, knife, cutlery, hygienic, safety. Measure, weigh, scale, accuracy, grams, pounds (LB), ounces (OZ), millilitres (ML), teaspoon, tablespoon, dessert spoon.
		Materials	> To according to the control of the	o know the name of tools used or cut. o know how to measure ccurately using standard and on-standard measurements. o know how to read a scale to neasure. o know shaping techniques. o know the names of joining echniques. o know the names of resources equired to join and shape. o select from and use a range f tools and equipment to erform practical tasks (cutting, haping, joining, finishing). o select from and use a wide ange of materials and omponents including onstruction materials, textiles and ingredients, according to heir characteristics.	Cut materials safely using tools provided. Measure and mark out to the nearest centimetre Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling) Demonstrate a range of joining techniques (such as gluing, using hinges or combining materials to strengthen.	Material, tool, cut, curl, safely, centimetre, glue, fold, tear. Measure, mark, ruler, tape measure, shaping, range, hinges, combine, strengthen, technique, scale
		Electricals and electronics	> To si	o understand what textiles are. o know how to perform a imple running stitch. o know how to use, dyeing, mbellishment and printing echniques. o understand how to join extiles together. o select from and use a range f tools and equipment to erform practical tasks (cutting, haping, joining, finishing). o select from and use a wide ange of materials and omponents including onstruction materials, textiles nd ingredients, according to heir characteristics. o know what a battery is and what it is used for. o know how batteries can be amaged.	Shape textiles using templates. Join textiles using running stitch. Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing) Diagnose faults in battery – operated devices (such as low battery, water damage or battery terminal damage)	Shape, textile, template, running stitch, techniques, dyeing, sequins, printing, decorate damage, battery, diagnose, fault, water damage, operated, device, battery terminal damage
		Computing		o know what software is and ow it is used.	Model designs using software.	Model, design, software

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		A	To generate, develop, model and communicate ideas through talking, drawing, templates, mock ups ad where appropriate IT.		
	Construction	AA A A A	To know what materials are. To know how techniques to make and strengthen products. To select from and use a range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing). To select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their characteristics. To build structures, exploring how they can be made stronger,	Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products.	Glue, product, materials, drill, screw, nail, strengthen, ingredients, characteristics, joining, finishing, cutting, shaping, structures, stronger, stiffer, stable
To design, mal	Mechanics	A A A A	stiffer and more stable. To know what levers, wheels and winding mechanisms are. To know how to design and create a product. To know how to use given mechanisms to create a product. To explore and use mechanisms (levers, sliders, wheels, axles)	Create products using levers, wheels and winding mechanisms.	Mechanism, wheel, lever, winding, product, axles, slider, wheels
To design, mak and improve	ke, evaluate		To know how to design a product based on a design criteria To know how to make and evaluate a product To know who a user is To know which software used to design. To design purposeful, functional, appealing products for themselves and other users based on design criteria. To generate, develop, model and communicate ideas through talking, drawing, templates, mock-ups, and where appropriate IT. To select from and use a range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing). To select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their characteristics. To explore and evaluate a range of existing products. To evaluate ideas and products against design criteria.	Design products that have a clear purpose and an intended user. Make products, refining the design as work progresses. Use software to design	Design, product, purpose, user, refine, progress, software, functional, criteria, template, mock-up, cutting, shaping, joining, finishing, components, evaluate
To take inspira design through		AAA	To know how to compare designs To know how to critique To know how to investigate products	Explore objects and designs to identify likes and dislikes of the designs. Suggest improvements to existing designs.	Design, explore, improvement, evaluate, objects, products
				Explore how products have been created	

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End	To master	Food	>	To know what hygiene	Prepare ingredients	Recipe, utensils, instruction,
of	practical skills			means and how to keep	hygienically using	peeler, grater, knife, rolling
LKS2				surfaces, utensils, and	appropriate utensils	pin,
				hands clean. To know how to read a	Maasura ingradiants to the	Cut neel grate ingredients
			>	scale.	Measure ingredients to the nearest gram accurately	Cut, peel, grate, ingredients, knife, cutlery, hygienic,
			>	To understand units of	Follow a recipe	safety.
				measure.	Follow a recipe	salety.
			>	To know how to follow	Assemble or cook	Measure, weigh, scale,
				a recipe.	ingredients (controlling the	accuracy, grams (G),
			>	To know the name of	temperature of the over or	kilogram (KG), pounds (LB),
				utensils and equipment	hob if cooking)	ounces (OZ), millilitres (ML),
				needed for food.	3,	teaspoon, tablespoon,
			>	To know how to use		dessert spoon.
				utensils and equipment		·
				correctly.		Oven, hob, grill.
			>	To know how to control		
				an oven or hob for		Temperature, Celsius, gas
				cooking.		mark, boiling point, simmer,
			>	To understand and		lukewarm, melting point,
				apply the principles of		freezing point.
				a healthy and varied		Canada litura anno manada
				diet.		Seasonality, savoury, reared,
			>	To prepare and cook a variety of		caught, grown, processed.
				predominately savoury		
				dishes using a range of		
				cooking techniques.		
			>	To understand		
				seasonality, and know		
				where and how a		
				variety of ingredients		
				are grown, reared,		
		NA-t	_	caught and processed.	Cot marks dala a sound tale and	Backarial to all automat
		Materials		To know how to use tools correctly.	Cut materials accurately and safely by selecting	Material, tool, cut, curl,
			>	To be able to measure	appropriate tools.	safely, centimetre, glue, fold, tear. Measure, mark,
				accurately.		ruler, tape measure,
			>	To know how materials	Measure and mark out to	shaping, range, hinges,
				are joined together.	the nearest millimetre	combine, strengthen,
			>	To know what the		technique, scale, slots, cut
				perimeter is and how to	Apply appropriate cutting	outs
				measure it.	and shaping techniques that	
				To know which	include cuts within the	
				technique is most	perimeter of the material	
			>	effective. To select from and use	(such as slots or cut outs)	
				a wider range of	Select appropriate joining	
				materials and	materials	
				components, including	materials	
				construction materials,		
				textiles and		
				ingredients, according		
				to their functional		
				properties and		
		Tautila -	-	aesthetic qualities.	Handamatan dalam ara 16	Chana Assatta Assat 1.5
		Textiles	>	To know what a seam and where it is	Understand the need for a seam allowance.	Shape, textile, template,
			>	To know how to use a	Scam anowance.	running stitch, techniques, dyeing, sequins, printing,
				seam allowance.	Join textiles with	decorate, aesthetic,
			>	To know how to use a	appropriate stitching.	components, construction,
				needle and thread.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	functional
			>	To know different	Select the most appropriate	
				techniques when	techniques to decorate	
				decorating textiles.	textiles	
			>	To recognise and use		
				different materials.		
			>	To select from and use		
				a wider range of		
		1	<u> </u>	materials and		

	components, including construction materials, textiles and ingredients, according to their functional properties and		
Electricals and electronics	aesthetic qualities. To understand how a simple circuit is made. To understand how series and parallel circuits are made. To understand and use electrical systems in their products (series circuits, incorporating	Create series and parallel circuits	Wire, cell, battery, series, clip, parallel, bulbs, buzzers, motors, switches
Computing	switches, bulbs, buzzers and motors) To apply understanding of computing to program, monitor and	Control and monitor models using software designed for this purpose	Model, design, software, purpose, control, monitor
Construction	control products. To select from and use a wide range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing). To 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. To understand and use mechanical systems in products (gears, pulleys, cams, levers	Choose suitable techniques to construct products or to repair items. Strengthen materials using suitable techniques Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product	Glue, product, materials, drill, screw, nail, strengthen, construct, repair, techniques, cutting, joining, shaping, aesthetic, functional Transference, forces, mechanisms, levers, winding, pulley, gear, cams, levers, linkages, mechanical
To design, make, evaluate and improve	> To use research and develop design criteria to inform the design of innovative, functional, appealing products that re fit for purpose, aimed at particular individuals or groups. > To generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design. > To select from and use a wide range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing).	(such as levers, winding mechanisms, pulleys and gears) Design with purpose by identifying opportunities to design Make products by working efficiently (such as by carefully selecting materials) Refine work and techniques as work progress continually evaluating the product design Use software to design and represent product designs	Materials, refine, product design, software, product, Design, product, purpose, user, refine, progress, software, innovative, prototypes, cross-sectional, annotated, exploded diagrams, pattern pieces, analyse

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	A A	To 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. To investigate and analyse a range of existing products. To evaluate ideas and products against their own design criteria and consider the views of others to improve work. To understand how key events and individuals in DT have helped shape the world.		
To take inspiration from design throughout history	eve	To identify great designers in all areas of study. To critique, evaluate and test ideas and products and the work of others. understand how key ents and individuals in DT re helped shape the rld.	Identify some of the great designers in all of the areas of study (including pioneers in horticultural techniques) to generate ideas for designs. Improve upon existing designs giving reasons for choices Disassemble products to understand how they work	Design, explore, improvement, evaluate, objects, products, horticultural, generate, disassemble, critique,

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End of UKS2	To master practical skills	Food	>	To understand and apply the principles of a healthy and varied diet.	Understand the importance of correct storage and handling of	Recipe, utensils, instruction, peeler, grater, knife, rolling pin,
			>	To prepare and cook a variety of predominately savoury dishes using a	ingredients (using knowledge of microorganisms)	Cut, peel, grate, ingredients, knife, cutlery, hygienic,
				range of cooking techniques.	Measure accurately and	safety.
			>	To understand seasonality, and know where and how a variety	calculate ratios of ingredients to scale up or down from a recipe	Measure, weigh, scale, accuracy, grams (G), kilogram (KG), pounds (LB), ounces (OZ), millilitres (ML),
				of ingredients are grown, reared, caught and processed.	Demonstrate a range of baking and cooking techniques	teaspoon, tablespoon, dessert spoon, ratios
					Create and refine recipes	Oven, hob, grill.
					including ingredients, methods, cooking times and temperatures	Temperature, Celsius, gas mark, boiling point, simmer, lukewarm, melting point, freezing point.
						Seasonality, savoury, reared, caught, grown, processed.
		Materials	>	To select from and use a wider range of materials and components, including construction materials, textiles and	Cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a	Material, tool, cut, curl, safely, centimetre, glue, fold, tear. Measure, mark, ruler, tape measure, shaping, range, hinges, combine,
				ingredients, according to their functional properties and aesthetic qualities.	more precise scissor cut after roughly cutting out a shape)	strengthen, technique, scale, slots, cut outs, precise, aesthetic, components
					Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (such as the nature of fabric may require sharper scissors than would be used to cut paper)	
		Textiles	A	To select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional	Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration)	Shape, textile, template, running stitch, techniques, dyeing, sequins, printing, decorate, visual, tactile, soft decoration, comfort, aesthetic, components,
				properties and aesthetic qualities.	Use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles (such as soft decoration for comfort on a cushion)	
		Electricals and electronics	A	To understand and use electrical systems in their products (series circuits, incorporating switches, bulbs, buzzers and motors)	Create circuits using electronics kits that employ a number of components (such as LEDS, resistors, transistor and chips)	Wire, cell, battery, series, clip, parallel, LEDs, resistors, transistor, chips, circuit, buzzers, resistors, motors
		Construction	A	To select from and use a wide range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing).	Develop a range of practical skills to create products and repair items (such as cutting, drilling, screwing, nailing, gluing, filling and sanding)	Glue, product, materials, drill, screw, nail, strengthen, construct, repair, techniques, drill, screw, nail, file, sanding, aesthetic, functional, cutting, shaping, joining, finishing

	Mechanics	A	To 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. To understand and use mechanical systems in products (gears, pulleys, cams, levers and linkages).	Convert rotary motion to linear using cams Use innovative combinations of electronics (or computing and mechanics in product designs)	Transference, forces, mechanisms, levers, winding, pulley, gear, rotary, linear, cams, innovative, cams, linkages, levers
To design, make, of improve	evaluate and		To use research and develop design criteria to inform the design of innovative, functional, appealing products that re fit for purpose, aimed at particular individuals or groups. To generate, develop, model and communicate ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design. To select from and use a wide range of tools and equipment to perform practical tasks (cutting, shaping, joining, finishing). To 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. To investigate and analyse a range of existing products. To evaluate ideas and products against their own design criteria and consider the views of others to improve work. To understand how key events and individuals in DT have helped shape the world.	Design with the user in mind, motivated by the service a product will offer (rather than simply for profit) Make products through stages of prototypes, making continual refinements Ensure products have a high quality finish using art skills where appropriate	Materials, refine, product design, software, product, Design, product, purpose, user, refine, progress, software, service, prototypes, refinements, continual, innovative, annotated sketches, cross-sectional, computer-aided, pattern pieces, analyse,
To take inspiration throughout histor		A	To critique, evaluate and test ideas and products and the work of others. To understand how key events and individuals in DT have helped shape the world.	Combine elements of design from a range of inspirational designers through history giving reasons for choices Create innovative designs that improve upon existing products	Design, explore, improvement, evaluate, objects, products, horticultural, generate, disassemble, critique

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	Evaluate the design of	
	products so as to suggest	
	improvement to the user	
	experience	