Design and Technology Progression of Skills: EYFS, KS1, LKS2 and UKS2

	ELG:	EYFS			KS1: I can	LKS2: I can	UKS2: I can
Physical Development	Moving and Handling	To use simple tools to effect changes to materials. To handle tools, objects, construction and malleable materials safely and with increasing control. To handle equipment and tools effectively, including pencils for writing.	Practical Skills	Food	cut, peel or grate ingredients safely and hygienically. measure or weigh using measuring cups or electronic scales. assemble or cook healthy ingredients. understand where food comes from.	prepare ingredients hygienically using appropriate utensils. measure ingredients to the nearest gram accurately. follow a recipe. assemble or cook healthy ingredients (controlling the temperature of the oven or hob, if cooking).	understand t ingredients (i measure acci down from a demonstrate create and re methods, coo understand h and processed understand o
	Health and Self Care	To show understanding of the need for safety when tackling new challenges and consider and manage some risks. To show understanding of how to transport and store equipment safely. To practise some appropriate safety measures without direct supervision.		Textiles Materials	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, hinges or combining materials to strengthen). 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).	cut materials accurately and safely by selecting appropriate tools. measure and mark out to the nearest millimetre. apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs). select appropriate joining techniques/ resources. understand the need for a seam allowance. join textiles with appropriate stitching. select the most appropriate techniques to decorate textiles.	cut materials tools (such a cut after roug show an und appropriate t require sharp create objects join textiles v back stitch for use the quali effects in the comfort on a
Expressive Arts and Design	Exploring and Using Materials	To explore what happens when they mix colours. To experiment to create different textures. To understand that different media can be combined to create new effects. To manipulate materials to achieve a planned effect. To construct with a purpose in mind, using a variety of resources. To use simple tools and techniques competently and appropriately. To select appropriate resources and adapt work where necessary. To select tools and techniques needed to shape, assemble and join materials they are using To safely use and explore a variety of materials, tools and techniques, experimenting with		Construction Computing Electronics	diagnose faults in battery operated devices (such as low battery, water damage or battery terminal damage). model designs using software (such as 2simple) use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products.	create series and parallel circuits control and monitor models using software designed for this purpose. choose suitable techniques to construct products or to repair items. strengthen materials using suitable techniques.	create circuit components chips.) write code to develop a rar (such as cutt sanding).

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he importance of correct storage and handling of using knowledge of microorganisms).

urately and calculate ratios of ingredients to scale up or 1 recipe.

a range of baking and cooking techniques.

efine recipes, including healthy seasonal ingredients, oking times and temperatures.

how a variety of ingredients are grown, reared, caught ed.

and apply principles of a healthy and varied diet.

s with precision and refine the finish with appropriate as sanding wood after cutting or a more precise scissor ughly cutting out a shape).

derstanding of the qualities of materials to choose tools to cut and shape (such as the nature of fabric may per scissors than would be used to cut paper.

s (such as a cushion) that employ a seam allowance.

with a combination of stitching techniques (such as or seams and running stitch to attach decoration).

ities of materials to create suitable visual and tactile e decoration of textiles (such as a soft decoration for a cushion).

ts using electronics kits that employ a number of (such as LEDs, resistors, transistors and

o control and monitor models or products.

nge of practical skills to create products ing, drilling and screwing, nailing, gluing, filling and

Design and Technology Progression of Skills: EYFS, KS1, LKS2 and UKS2

		colour, design, texture, form and function				
		To create simple representations of events, people and objects. To choose particular colours to use for a purpose To use what they have learnt about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories	Mechanics	create products using levers, wheels and winding mechanisms.	use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears.)	convert rotar use innovativ mechanics in
	Being Imaginative		 Designing, Making, Evaluating and Improving	design products that have a clear purpose and an intended user. make products, refining the design as work progresses. use software to design. begin to evaluate their ideas and products against design criteria.	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 progresses, continually evaluating the product design. use software to design and represent product designs.	design with t will offer (rat make produc refinements. ensure produ appropriate. use prototype to represent of
			Taking Inspiration	explore objects and designs to identify likes and dislikes of the designs. suggest improvements to existing designs. explore how products have been created.	identify some of the great designers (such as Brunel, Mackintosh, Philip Treacy, Marcel Breuer) 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.	combine elem throughout h create innovc evaluate the improvement

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ry motion to linear using cams.

ve combinations of electronics (or computing) and n product designs

the user in mind, motivated by the service a product attention that simply for profit).

cts through stages of prototypes, making continual

ucts have a high quality finish, using art skills where

es, cross-sectional diagrams and computer aided designs designs.

nents of design from a range of inspirational designers nistory, giving reasons for choices.

ative designs that improve upon existing products.

design of products so as to suggest ts to the user experience.