DT	LKS2	Children can:	Autumn	Spring	Summer
	KS2 Design and Technology National Curriculum Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing. They should work in a range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment]. Children 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. They generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer- aided design.	Identify the design features of their products that will appeal to intended customers;			
		Use their knowledge of a broad range of existing products to help generate their ideas			
		Design innovative and appealing products that have a clear purpose and are aimed at a specific user;			
		Explain how particular parts of their products work;			
		Use annotated sketches and cross-sectional drawings to develop and communicate their ideas;			
		When designing, explore different initial ideas before coming up with a final design;			
		When planning, start to explain their choice of materials and components including function and aesthetics;			
		Test ideas out through using prototypes;			
		Use computer-aided design to develop and communicate their ideas			
		Develop and follow simple design criteria;			
		Work in a broader range of relevant contexts, for example entertainment, the home, school, leisure, food industry and the wider environment.			
Make	KS2 Design and Technology National Curriculum Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of making.	With growing confidence, carefully select from a range of tools and equipment, explaining their choices;			
		Select from a range of materials and components according to their functional properties and aesthetic qualities;			
	Children select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] accurately. They 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. a .	Place the main stages of making in a systematic order;			
		Learn to use a range of tools and equipment safely, appropriately and accurately and learn to follow hygiene procedures			
		Use a wider range of materials and components, including construction materials and kits, textiles and mechanical and electrical components;			

b ;	With growing independence, measure and mark out to the nearest cm and millimetre;		
	Cut, shape and score materials with some degree of accuracy;		
	Assemble, join and combine material and components with some degree of accuracy;		
	Demonstrate how to measure, cut, shape and join fabric with some accuracy to make a simple product;		
	Join textiles with an appropriate sewing technique;		
	Begin to select and use different and appropriate finishing techniques to improve the appearance of a product such as hemming, tie-dye, fabric paints and digital graphics.		

Evaluate Thro pupil and s		own design criteria and consider the views of others to	Explore and evaluate existing products, explaining the purpose of the product and whether it is designed well to meet the intended purpose;		
			Explore what materials/ingredients products are made from and suggest reasons for this;		
			Consider their design criteria as they make progress and are willing to alter their plans, sometimes considering the views of others if this helps them to improve their product;		
		They understand how key events and individuals in design			
	and technology have helped shape the world.	Evaluate their product against their original design criteria;			
		Evaluate the key events, including technological developments, and designs of individuals in design and technology that have helped shape the world.			

Technica	KS2 Design and Technology National Curriculum Children apply their understanding of how to strengthen, stiffen and reinforce more complex structures.	Understand that materials have both functional properties and aesthetic qualities;		
Knowledg e	·	Apply their understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products;		
		Understand and demonstrate how mechanical and electrical systems have an input and output process;		
		Make and represent simple electrical circuits, such as a series and parallel, and components to create functional products;		
		Explain how mechanical systems such as levers and linkages create movement;		
		Use mechanical systems in their products.		
		Start to know when, where and how food is grown (such as herbs, tomatoes and strawberries) in the UK, Europe and the wider world;		
		Understand how to prepare and cook a variety of predominantly savoury dishes safely and hygienically;		
		With support, use a heat source to cook ingredients showing awareness of the need to control the temperature of the hob and/or oven;		
Co oki ng		Use a range of techniques such as mashing, whisking, crushing, grating, cutting, kneading and baking;		
an d Nu tri tio n		Explain that a healthy diet is made up of a variety and balance of different food and drink, as represented in the Eatwell Guide and be able to apply these principles when planning and cooking dishes;		
		Understand that to be active and healthy, nutritious food and drink are needed to provide energy for the body;		
		Prepare ingredients using appropriate cooking utensils;		
		Measure and weigh ingredients to the nearest gram and millilitre;		
		Start to independently follow a recipe;		
		Start to understand seasonality.		