Che	adle Primary – the school at	the heart of the village, free	to flourish, ready to learn and su	cceed. Progression of Sk	ills and Knowledge: DESIGN TE	CHNOLOGY Year 3		
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Topic	Stone Age	Volcanoes	Ancient and Modern China	Shakespeare	Ancient Egypt	UK Study		
National Curriculum Learning Intentions	Design - 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; generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.  Make - 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, textiles and ingredients, according to their functional properties and aesthetic qualities.  Evaluate - 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; understand how key events and individuals in design and technology have helped shape the world  Technical Knowledge - 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, levers and linkages]; monitor and control their products.  Cooking and Nutrition - understand and apply the principles of a healthy and varied diet; prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques; understand seasonality, and know where and							
	how a variety of ingredients are grown, reared, caught and processed.							
DT Units		AL POSTERS	EDIBLE GA		LET'S GO FL	Y A KITE		
Technical Knowledge	how mechanical systems such as lever systems create movement to use learning from science to help that materials have both functional that materials can be combined and characteristics that mechanical systems output the correct technical vocabulary for	design & make products that work properties and aesthetic qualities d mixed to create more useful ems have an input, process and	that food ingredients can be fresh, pre-co	okeu anu processeu	how to make strong, stiff shell structures that a single fabric shape can be used to m how to use learning from mathematics to he work			
Cooking and Nutrition	,	, , ,	that a healthy diet is made up from a var and drink, as depicted in The eatwell plat that to be active and healthy, food and of for the body how to use a range of techniques such as mixing, spreading, kneading and baking that food is grown (eg tomatoes, wheat,	re drink are needed to provide energy speeling, chopping, slicing, grating,				
Key Skills	Explore how mechanical systems we Draw a design which uses annotation Develop design criteria to inform the aimed at a particular audience.  Make a prototype and well-finished lever/linkage mechanisms.  Use design criteria to help guide the	ons to add some detail. The design of innovative products The poster which aims to have two	Understand the correct proportions for a Be able to plant and care for a variety of Measure ingredients to the nearest millil ingredients.	ingredients so that yield produce.	Explain how a small event led to a larger significant which helped to shape the world.  Use research to create ideas and refine the Build and join strong frame structures and shapply understanding of where and how kites	m to develop design criteria.		
Learning Intentions	To investigate mechanical systems. To make mechanical systems which To use sketches to develop and com To develop design criteria to help m To use prototypes to develop my ide To evaluate my poster. To name the parts and functions of system.	use levers and linkages. nmunicate ideas. ne design an innovative product. eas.	To name some herbs and know how to go To explain what makes a diet healthy and balanced meal.  To explain where, when and how strawbo Kingdom.  To use kitchen tools correctly to prepare drink.  To explain when tomatoes are in season where and how they are grown.  To prepare and cook/assemble a healthy my main ingredient.	d varied and can cook a healthy erries are grown in the United and make a tasty & nutritious in the United Kingdom and can say	To explain how key events and individuals is shape the world.  To communicate my existing understanding To name and explain the function of the did To select from and use different materials at To investigate kite shapes.  To develop and communicate a design for it To accurately measure and cut the shape of frame structure.  To make a strong and stiff frame structure	g about kites.  Ifferent parts of a kite.  Indicate the components.  Indicate the components of the kite and join it to the components.		
Vocabulary	Design brief, recycle, mechanism, m linkage, design brief, pivot, input, or guide/bridge, system, input, output finish, techniques, components, rep	utput, loose/fixed pivot, prototype, mock-up, high-quality, blicate.	Polytunnels, glass houses, seeds, plants, simmer, seasoning, bruschetta, grate, che	op, heat source, hob.	Parts, function, bridle, line, tow point, keel, diamond, rokkaku, sled.			
Resources	Examples of mechanisms teaching a Linkages, examples of objects made card, coloured pens/pencils, magazi scissors, modelling clay, rulers, stick	e from recycled materials, paper/ ines/ newspapers, glue, split pins,	Containers, herbs in pots/seeds. Soil, trowand mortar, measuring spoons, ramekin pans, garlic, fresh basil, parmesan cheese lemon, whole wheat pasta, varieties of to	bowls, chopping board, safe knives, e, pine nuts, extra virgin olive oil,	Kite making materials (e.g. newspaper, tissom wrapping paper and wallpaper, card, woode tape, pencils, scissors, rulers, hole punch) leads to be a scissor of the control o	en skewers, ribbon, kite string, sticky		