Subject: D	esign Technology	Year 5							
Design									
• carry out research, using surveys, interviews, questionnaires and web-based resources									
	• identify the needs, wants, preferences and values of particular individuals and groups								
generate innovative ideas, drawing on research									
Making									
	select tools and equipment suitable for the task								
	• explain their choice of tools and equipment in relation to the skills and techniques they will be using								
• select materials and components suitable for the task									
• explain their choice of materials and components according to functional properties and aesthetic qualities									
• measure, mark out, cut and shape materials and components									
• assemble, join and combine materials and components									
• apply a range of finishing techniques, including those from art and design									
• use techniques that involve a number of steps									
• demonstrate resourcefulness when tackling practical problems									
<u>Evaluating</u>									
		e design, manufacture and fitness for purpose of their produc							
		ers, chefs and manufacturers who have developed ground-brea	iking products						
Food and Nu									
	ns may affect the food of								
		ents that can be eaten or used in cooking	L et ut						
Term:	Topic:	Knowledge	Skills:	Key Questions					
Autumn	Structures	Understand how to strengthen, stiffen and reinforce 3-D	Designing	What different types of structures					
	Frame	frameworks.	Making	are used for bridges?					
	structures	Know and use technical vocabulary relevant to the project.	Evaluating	What makes a structure sturdy?					
	Key Vocabulary	frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent							
		Cultural Capital: Exploring local bridges within the North East							
Spring	Cooking and	Understand about seasonality in relation to food	Designing	How does our food differ					
0	nutrition – Where	products and the source of different food products.	Making	depending on the season?					
	food comes from	Know and use relevant technical and sensory	Evaluating	Where does our food come from?					
		vocabulary.		Do you know what different					
		Know how to use utensils and equipment including		utensils are used for?					
		heat sources to prepare and cook food							

	Key Vocabulary	ingredients, yeast, dough, bran, flour, wholemeal, unleavened, baking soda, spice, herbs fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, shape, sprinkle, crumble Cultural Capital: To visit a local supermarket. To cook with family. To grow some fruit and vegetables			
Summer	Mechanical Systems Pulleys or gears	Understand that mechanical and electrical systems have an input, process and an output. Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement. Know and use technical vocabulary relevant to the project.	Designing Making Evaluating	How have mechanisms changed over time? How do different mechanisms effect the movement of an object?	
	Key Vocabulary	arypulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor, circuit, switch, circuit diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, outputCultural Capital: Exploring how mechanisms have changed over time eg. The victorian era			