YEAR 6

DT PROGRESSION OVERVIEW

	SHELL STRUCTURES	COOKING AND NUTRITION	
BIG IDEA	AGENTS FOR (HANGE Asia - paim oil and the vegetation belt	ANCIENT ANCESTORS The Ancient Greeks	
PROJECT ON A PAGE	Frame structures	Celebrating culture and seasonality	
SUGGESTED ACTIVITIES	• Structures- Survival Tents	• Celebrating Culture and Seasonality – Greek food	 Design and m automatically / shelter
FAMOUS IN THE FIELD	Knowledge of different tent designs/designers	Origins of chilli/ south american cookery/chefs	
DESIGN	 Carry out research into user needs and existing products, using surveys, interviews, questionnaires and web-based resources. Develop a simple design specification to guide the development of their ideas and products, taking account of constraints including time, resources and cost. Generate, develop and model innovative ideas, through discussion, prototypes and annotated sketches. 	 Generate innovative ideas through research and discussion with peers and adults to develop a design brief and criteria for a design specification. Explore a range of initial ideas, and make design decisions to develop a final product linked to user and purpose. Use words, annotated sketches and information and communication technology as appropriate to develop and communicate ideas. 	 Develop a design automatically to Generate, develop sketches and pict diagrams.
Make	 Formulate a clear plan, including a step-by-step list of what needs to be done and lists of resources to be used. Competently select from and use appropriate tools to accurately measure, mark out, cut, shape and join construction materials to make frameworks. Use finishing and decorative techniques suitable for the product they are designing and making. 	 Write a step-by-step recipe, including a list of ingredients, equipment and utensils. Select and use appropriate utensils and equipment accurately to measure and combine appropriate ingredients. Make, decorate and present the food product appropriately for the intended user and purpose. 	 Formulate a step materials and Co Competently sele electrical compon Create and modition
Evaluate	 Investigate and evaluate a range of existing frame structures. Critically evaluate their products against their design specification, intended user and purpose, identifying strengths and areas for development, and carrying out appropriate tests. Research key events and individuals relevant to frame structures. 	 Carry out sensory evaluations of a range of relevant products and ingredients. Record the evaluations using e.g. tables/graphs/charts such as star diagrams. Evaluate the final product with reference back to the design brief and design specification, taking into account the views of others when identifying improvements. Understand how key chefs have influenced eating habits to promote varied and healthy diets. 	 Continually evalue match the initial Test the system purpose.
TECHNICAL Knowledge And Understandin G	 Understand how to strengthen, stiffen and reinforce 3-D frameworks. Know and use technical vocabulary relevant to the project. 	 Know how to use utensils and equipment including heat sources to prepare and cook food. Understand about seasonality in relation to food products and the source of different food products. Know and use relevant technical and sensory Vocabulary. 	 Understand and Understand the u Apply their under their products. Know and use te
PRIOR Learning	 Experience of using measuring, marking out, cutting, joining, shaping and finishing techniques with construction materials. Basic understanding of what structures are and how they can be made stronger, stiffer and more stable. 	 Have knowledge and understanding about food hygiene, nutrition, healthy eating and a varied diet. Be able to use appropriate equipment and utensils, and apply a range of techniques for measuring out, preparing and combining ingredients. 	 Initial experience standalone box of Some experience on or flash on an Understanding of experience of creating

Systems Mechanical

THROUGH THE AGES History on our Doorstep (VVV2)

Monitoring and Control

make a functional product that responds illy to changes in the environment. - Air raid siren

Look at famous alarm systems

gn specification for a functional product that responds to changes in the environment.

lop and communicate ideas through discussion, annotated pictorial representations of electrical circuits for circuit

tep-by-step plan to guide making, listing tools, equipment, Components.

select and accurately assemble materials, and securely connect ponents to produce a reliable, functional product.

odify a computer control program to enable their electrical pond to changes in the environment.

aluate and modify the working features of the product to ial design specification.

m to demonstrate its effectiveness for the intended user and

nd use electrical systems in their products. ne use of computer control systems in products. Iderstanding of computing to program, monitor and control

technical vocabulary relevant to the project.

nce of using computer control software and an interface box, a x or microcontroller, e.g. Crumble.

nce of writing and modifying a program to make a light turn and off.

g of the essential characteristics of a series circuit and creating a battery-powered, functional, electrical product.

Key Vocabulary	frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent design brief, design specification, prototype, annotated sketch, purpose, user, innovation, research, functional	carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality utensils, combine, fold,	reed switch, toggle switch, resistor (LDR), tilt switch li holder, USB cable, wire, insi device, output device, series parallel circuit function, inn
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ch, push-to-make switch, push-to-break switch, light dependent ch light emitting diode (LED), bulb, bulb holder, battery, battery insulator, conductor, crocodile clip control, program, system, input ries circuit,

innovative, design specification, design brief, user, purpose