## KEY STAGE 3 – DESIGN TECHNOLOGY – CURRICULUM MAPPING WADEBRIDGE SCHOOL National Curriculum - Key stage 3 (Year 7/8)

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values.

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 and making. They should work in a range of domestic and local contexts [for example, the home, health, leisure and culture], and industrial contexts [for example, engineering, manufacturing, construction, food, energy, agriculture (including horticulture) and fashion]. Our provision for Design & Technology at Wadebridge School is developed from the statutory guidance in the National Curriculum (link below).

https://www.gov.uk/government/publications/national-curriculum-in-england-design-and-technology-programmes-of-study/national-curriculum-in-england-design-and-technology-programmes-ofstudy#:~:text=for%20example%2C%20microcontrollers%5D-,Cooking%20and%20nutrition,great%20expressions%20of%20human%20creativity.

#### When designing and making, pupils should be taught to:

#### Design

- use research and exploration, such as the study of different cultures, to identify and understand user needs
- identify and solve their own design problems and understand how to reformulate problems given to them
- develop specifications to inform the design of innovative, functional, appealing products that respond to needs in a variety of situations
- use a variety of approaches [for example, biomimicry and user-centred design], to generate creative ideas and avoid stereotypical responses develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations and computer-based tools (CAD)

#### Make

- select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture (CAM) ٠
- select from and use a wider, more complex range of materials, components and ingredients, considering their properties

#### **Evaluate**

- analyse the work of past and present professionals and others to develop and broaden their understanding ٠
- investigate new and emerging technologies •
- test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups ٠
- understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists • **Technical knowledge** 
  - understand and use the properties of materials and the performance of structural elements to achieve functioning solutions
  - understand how more advanced mechanical systems used in their products enable changes in movement and force
  - understand how more advanced electrical and electronic systems can be powered and used in their products [for example, circuits with heat, light, sound and movement as inputs and outputs] ٠
  - Apply computing and use electronics to embed intelligence in products that respond to inputs [for example, sensors], and control. •

#### **Cooking and nutrition**

As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life.

#### Pupils should be taught to:

- understand and apply the principles of nutrition and health
- cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet
- become competent in a range of cooking techniques [for example, selecting and preparing ingredients; using utensils and electrical equipment; applying heat in different ways; using awareness of taste, ٠ texture and smell to decide how to season dishes and combine ingredients; adapting and using their own recipes]
- understand the source, seasonality and characteristics of a broad range of ingredients



YEAR 7 DT PROVISON:		PRODUCT DESIGN		FOOD AND NUTRITION / TEXTILES			
ASSESSMENT OBJECTIVES & DT PRINCIPLES	PROJECT / CURRICULUM CONTENT (LINKED TO NC AND AO'S FROM KS4 PROGRESSION)	PD- DESIGNER WOODEN PICTURE FRAME	PD - CAD /CAM ACRYLIC CLOCK	PD -PCB / VAC FORM TORCH	TUTTI FRUITTI RECIPES	AL FRESCO RECIPES	TUTTI FRUITTI APRON
AO1: IDENTIFY DESIGN POSSIBILITIES (RESEARCH)	RESEARCH & INVESTIGATION: PRODUCT ANALYSIS / WORK OF OTHERS / PRODUCT DISSASEMBLY	PRODUCT ANALYSIS WORK OF KEY DESIGNERS:	WORK OF OTHERS: Memphis PRODUCT ANALYSIS	PRODUCT DISSASEMBLY	LOCAL EATERY RESEARCH		PRODUCT DISSASEMBLY & PRODUCING SAMPLES
	USER NEEDS / TARGET AUDIENCE		DESIGNING FOR CLIENT	DESIGNING FOR ERGONOMICS	HEALTHY EATING RECIPES FOR TEENS	DESIGNING FOR A PIZZA COMPANY	DESINING FOR STUDENTS
	DESIGN SPECIFICATION / BRIEF	SPECIFICED IN PROJECT		SPECIFIED IN PROJECT	SPECIFIED IN PROJECT	SPECIFIED IN PROJECT	SPECIFIED IN PROJECT
	RESEARCH MATERIALS / PROCESSES	TIMBERS RESEARCH TASK	RESEARCH POLYMERS / CATEGORISATION?	PROCESS / SKILLS TASKS IN BOOKLET.			FIBRES AND FABRICS RESEARCH
	UNDERSTAND DIFFERENT CULTURES	KEY DESIGNERS / INFLUENCE	DESIGN MOVEMENTS		HEALTHY EATING & NUTRITION	FOOD AVAILABILTY & SEASONALITY	BLOCK PRINTING (LESSON ON INDIAN DESIGN)
AO2: DESIGN & MAKE	DESIGNING – CONCEPTS	DESIGN IDEAS & FINAL DEVELOPMENT	DESIGN IDEAS & FINAL DEVELOPMENT	DESIGN IDEAS (SCRUFFITI) & ITERATIVE DEVELOPMENT	JAM TART DESIGN & PLANNING	HEALTHY LUNCH DESIGN PIZZA DESIGN	USE OF MANNEQUIN (CROQUIS)
PROTOYPES THAT ARE FIT FOR PURPOSE	DESIGNING – PROJECTIONS	ORTHOGRAPHIC PROJECTION FINAL DESIGN	EXPLODED DRAWING / 3D PROJECTION	ORTHOGRAPHIC PROJECTION FINAL DESIGN			SURFACE / PATTERN DESIGN
(DESIGN & MAKE)	DESIGNING - CAD KEY SKILLS	CUSTOMISING FRAME – VECTORISIING	CAD SAMPLES – KEY SKILLS & TOOLS IN 2D DESIGN MPLES –				
	MODELLING / PROTOTYPING /SAMPLES / TESTING MATERIALS	WOOD JOINT	CAM MODELLING – USE OF LASER	ERGONOMIC MODELLING & TESTING			HEM SAMPLE BLOCK PRINT SAMPLE
	PROTOTYPE / FINAL PRODUCT	PINE MITER JOINTED PICTURE FRAME	INDIVIDUAL ACRYLIC CLOCK	VACUUM FORMED / PCB POCKET TORCH	RECIPES THROUGHOUT & FINAL ASSESSED SKILL DISH	RECIPES THROUGHOUT & FINAL ASSESSED SKILL DISH	CONSTRUCTED / EMBELLISHED APRON
	DEVELOPMENT – CAD	CUSTOMISING FRAME DETAILS (EXTENSION)	FINAL DESIGN – CAD DEVELOPMENT				
	CAM DEVELOPMENT & FINAL PRODUCT	CUSTOMISING FRAME DETAILS (EXTENSION)	USE OF LASER – CLOCK FINAL PRODUCT				
	MECHANICAL SYSTEMS						
	ELECTRONIC SYSTEMS			SOLDERING – PCB			
AO3: EVALUATION AND	SOLVE DESIGN ISSUES THROUGHOUT	PRACTICAL DEVELOPMENT – WOOD JOINTS & ASSEMBLY	PRACTICAL DEVELOPMENT- CAD / CAM	PRACTICAL DEVELOPMENT – MULTIPLE SKILLS	PROBLEM SOLVING RECIPES & FOLLOWING METHODS	PROBLEM SOLVING RECIPES & FOLLLOWING METHODS	SAMPLES, DESINING, TESTING & DEVELOPMENT
TESTING (EVALUATE)	TESTING & EVALUATION	EVALUATION OF BRIEF, PRACTICAL SKILLS & FINAL	EVALUATION OF WORK OF OTHERS, CAD /CAM & FINAL	EVALUTAION OF KEY PROCESS, ERGONOMICS & FINAL	THROUGHOUT PRACTICALS & IN KEY SKILL DISHES	THROUGHOUT PRACTICALS & IN KEY SKILL DISHES	THROUGHOUT – DESIGN / MAKE / EVALUATE FINAL
	TECHNICAL PRINCIPALS IN DESIGING & MAKING	THROUGHOUT ALL DESIGN TASKS & ASSESSED	THROUGHOUT ALL DESIGN TASKS & ASSESSED	THROUGHOUT ALL DESIGN TASKS & ASSESSED	USE OF VARIOUS SKILLS PROCESSES IN PRACTICALS	USE OF VARIOUS SKILLS PROCESSES IN PRACTICALS	SEWING MACHINE TEST, TEXTILE DESIGN.
	THEORETCIAL UNDERSTANDING OF MATERIALS &	TIMBERS RESEARCH, DNA, SUM	MATERIALS RESEARCH, DNAS,	PRODUCT DISSASEMBLY,			MATERIALS – FIBRES AND
	PROPERTIES.	IT UP & LITERACY TASKS.	SUM IT UP & KEY PROCESSES	PROCESS TASKS &			FABRICS
PRACTICAL SKILLS: Process & Techniques	SPECIALIST TOOLS	Hand tools: Tenon Saws, sanding machines, marking tools. Mitre saws.	assembly of mechanisms.	former)	knives, ovens, food processors & blenders	Knives, ovens, food processors, frying & use of hob	rons, sewing machines, needles, pins & stitch rippers.
	SPECIALIST TECHNIQUES	Marking out, use of hand tools & safe machinery use.	2D design: Shape tools, contour, boundary fill, line tool, copy, delete tools.	Soldering, vacuum forming, wasting & abrading, drilling and finishing.	Knife skills, use of ovens, hob, pastry, bread	Refining skills – knife use, independence in ovens / hob.	Sewing machine, construction, decorative & ironing.
	SPECIALIST PROCESSES	Sanding / abrading. Mitre Joints, Gluing & Assembly, Waxing & staining.	Use of CAD / CAM (2d Design). Adhesives (Tensol Cement)	As above & drawing / communication techniques	Frying, baking,		Hemming, pattern cutting, block printing.
	USE OF MATERIALS / INGREDIENTS	Pine, mixed materials, hardwood.	Acrylic.	HIPS, MDF former, PCB & key electronic components.	Various – according to recipes	Various - according to recipes	Woven materials, fabric paint, accurate sewing machine.
SKILLS BUILDER 8 KEY SKILLS	<ol> <li>Listening (Listening to Teacher Demo / peer feedback / peer support / following instructions for H&amp;S)</li> </ol>	X	X	X	x	X	x
Links to careers skills and	2. Speaking (Explaining processes / Peer teaching)	х		X	Х	Х	Х
building blocks across school	3. Problem solving (Design, making & practical tasks)		X	X	Х	X	X
wide curriculum	<ol> <li>Creativity (Diversity in design, designing for clients, pattern design, planning dishes)</li> </ol>	x	x	x	x	x	x
	5. Staying Positive (resilience in al aspects)	Х	X	X	Х	Х	Х
	6. Aiming High (challenge in projects & tasks)	Х	Х	Х	х	Х	Х
	7. Leadership (peer teaching, peer activities)	Х	Х	Х	Х	Х	
	8. Teamwork (collaborative learning & activities)		X	X	X	X	X

## YEAR 7 – OVERVIEW / SEQUENCE OF PROJECTS

YEAR 7 – all students in the first lesson to complete a baseline test assessing prior skills and knowledge. Work to be marked by teacher or peer assessed to determine final score. Currently year 7 students complete a cross material groups of timber and polymers, textiles and food. Projects are completed termly, with either a Product Design and Textiles, or Product Design and Food being taught simultane Each project contains 3 assessments – one each half term, either set in class or as an extended homework. The third assessment is of the final product upon complete

e a range of projects (6 in total across all specialisms) spreading
eously and split across single / double lessons.
on of the project.

TER	M 3
R 1	SUMMER 2

CAD /CAM: Memphis Clock Design

• DESIGN:

## ICT DESIGN: Designer Wood Picture Frame

signing for user centred design – theme / user needs & wants and designer

velopment of initial ideas, and to planning of final design. signing with parameters

tre frame – use of mitre saws, marking out tools and sanding to tolerance bod joints / practical focus introducing cutting / sanding / finishing processes. e of a range of hand tools, and machinery in the workshop

aluation of design developments

### -

- -
- TECHNICAL KNOWLEGDE:
  - Theory of wood joints (Practical) -
  - --
  - H&S in the workshop. -
  - -

#### **ASSESSMENTS:**

## **FOOD 2 – ALFRESCO RECIPES**

- DESIGN:
- -
- -
- MAKE /MODEL:
  - processes independently.
- EVALUATE:
- -
- -
- -• TECHNICAL KNOWLEGDE:

  - --
  - -Food labelling (introduction)

#### **ASSESSMENTS:**

- - design). (End of Project).

Evaluation / research into user needs (mood board and client profile) Designing & evaluation of initial ideas.

Recognition of materials & sources – timbers / boards and polymers.

Final Design – fully annotated to recognise parts, joints, tools to use.

CAD / CAM extension to create acrylic designs to fix to frame for customization

1. Materials research – Sources and categorisation of timbers (HT1) 2. Final Design – Isometric projection & rendering communication techniques. (HT2) 3. Final Product –Pine picture frame based on the work of designer. (End of Project)

Design and develop a children's pizza for a local pizza company Customise / design presentation of a range of set practicals

Follow methods to create / develop a range of recipes, supporting refinement / mastery of skills from food 1 and confidence in using key equipment and

Evaluate throughout practicals, following key skills demonstrated by teacher and ensuring quality / as intended final outcome for each recipe Evaluate the work of others in mood board & development of pizza design Evaluate final major skills dish - self and peer assessment / evaluation

Healthy eating & the Eatwell guide Food origins and provenance

1. Design / research – Healthy Eating Flyer (HT1) 2. Recipe development & planning – Children's Pizza design (HT2) 3. Final Product / skills dish: Final Pizza (hand made dough and presentation as per

Y	EAR 8 DT PROVISON:	PRODUC	RODUCT DESIGN / ARCHITECTURE		FOOD AND NUTRITION / TEX		TEXTILES
ASSESSMENT OBJECTIVES & DT PRINCIPLES	PROJECT / CURRICULUM CONTENT (LINKED TO NC AND AO'S FROM KS4 PROGRESSION)	PD- LEGO HERO!	PD – ACRYLIC NIGHT LIGHT	ARCHITECTURE / PD – RESCUE SHELTER	DELICIOUS RECIPES!	FOOD AROUND THE WORLD	LITERACY PATCHWORK CUSHION
AO1: IDENTIFY DESIGN	RESEARCH & INVESTIGATION: PRODUCT ANALYSIS / WORK OF OTHERS / PRODUCT DISSASEMBLY	PRODUCT DISSASEMBLY – EXISTING PRODUCT	WORK OF OTHERS – DESIGNER RESEARCH	RESEARCHIGN NATURAL DISASTERS & SUSTAINABLE DESIGN	WORK OF OTHERS – FAMOUS CHEF RESEARCH	WORK OF OTHERS – PRODUCERS / FAMERS IN FAIRTRADE	GENRE RESEARCH, REVISION OF KET MATERIALS
(RESEARCH)	USER NEEDS / TARGET AUDIENCE	DESIGNING FOR USER – LEGO HERO	DESIGNING FOR USER – CLIENT PROFILE & TASK ANALYSIS	DESIGNING FOR SPECIFIC BRIEF – USER NEEDS	HEALTHY EATING RECIPES	FOOD CULTURES & RELIGIONS	CLIENT PROFILE / DESIGNING FOR CLIENT
	DESIGN SPECIFICATION / BRIEF	WRITING A FULL SPECIFICATION USING ACCESS FMM	DESINING TO THE SET BRIEF	IDENTIFIED AND SET AS PROJECT BRIEF & SITUATION			DESIGNING TO PROJECT BRIEF
	RESEARCH MATERIALS		PROCESSES AND TECHNIQUES KNOWLEDGE				
	UNDERSTAND DIFFERENT CULTURES			WORLD WIDE DISASTERS / AREAS OF CONFILICT	SPECIALIST DIETS / FOODS	FOOD CULUTRES / RELIGIOUS DIETS	READING CULTURES & LOVE OF READING
AO2: DESIGN &	DESIGNING – CONCEPTS	DESIGN CONCEPTS / IDEAS	DESIGN CONCEPTS & DEVELOPMENT	CONCEPT IDEAS – ARCHITECTURAL KEY DESIGNERS			DESIGNING A RANGE OF CONCEPTS
MAKE PROTOYPES	DESIGNING – PROJECTIONS	DESIGNING FINAL PRODUCT & PARTS LIST	ISOMETRIC & ORTHOGRAPHIC PROJECTION – FINAL DESIGN	DRAWING LAYOUTS – BIRDS EYE & CAD PROJECTIONS			EXPLODED / CONSTRCUTION SKETCHES
	DESIGNING CAD KEY SKILLS	CAD CAM ELEMENTS (EXTENSION)	CAD DEVELOPMENT – 2D DESIGN: VECTORISING & CONTOUR	USE OF SKETCHUP – NEW SKILLS AND TOOLS – FOLLOW TUTORIAL			
(DESIGN & WARE)	MODELLING / PROTOTYPING /SAMPLES / TESTING MATERIALS		MODELLING WITH CARD -TESTING SCALE AND PROPORTIONS	TESTING / DEVELOPING INTIAL FLOOR PANS	TESTING – FOOD SCIENCE – EGGS	TESTING – FOOD SCIENCE – BREAD – RASIING AGENTS	SAMPLES – APPLIQUE, PATCHWORK & HEMMING
	PROTOTYPE / FINAL PRODUCT	PINE LEGO HERO	THERMO FORMED / ELECTRONIC NIGHT LIGHT	FINAL PRODUCT – CAD SIMULATION RESCUE SHELTER	FINAL SKILL DISH – QUICHE	FINAL SKILL DISH – ARTISAN FOCCACIA	PATCHWORK / APPLIQUE CUSHION
	DEVELOPMENT – CAD	CAD / CAM EXTENSION	CAD DEVELOPMENT FOR TOP	GOOGLE SKETCH UP – INITIAL IDEAS TO FINAL SIMULATION			
	CAM DEVELOPMENT & FINAL PRODUCT	CAD CAM EXTENSION	USE OF LASER TO DEVELOP TOP FOR LIGHT – USE OF MACHINE	SUPERINPOSING CAD DRAWING INTO RENDERED BACKGROUND			
	MECHANICAL SYSTEMS	MOTION & MOVEMENT OF PRODUCT - DISSASEMBLY					
	ELECTRONIC SYSTEMS	-	SODERING, BASIC CIRCUITRY TO DEVELOP LED / SWITCH CIRCUIT				
AO3: EVALUATION	SOLVE DESIGN ISSUES THROUGHOUT	WORKING WITH ACCURACY & TOLERANCE	DEVELOPING A RANGE OF COMPONENTS FOR PRODUCT	DESIGNING USING NEW PRORGRAMS AND NEEDS OF USER	DEVELOPING VARIOUS RECIPES & FOLLOWING METHOD	DEVELOPING VARIOUS RECIPES & FOLLOWING METHOD	DESINGING FOR CLIENT & PRACTICAL DEVELOPMENT
(EVALUATE)	TESTING & EVALUATION	TESTING THROUGHOUT PROJECT – ITERATIVE & FINAL	TESTING / MODELLING EVALUATION OF FINAL PRODUCT.	CONSISTENT THROUGHOUT PROJECT & OF FINAL PRODUCT	TESTING FINAL PRODUCTS	TESTING FINAL PRODUCTS	TESTING SAMPES, FINAL EVALUATION OF CUSHION
	TECHNICAL PRINCIPALS IN DESIGING & MAKING	USE OF JIGS, DRILLING, WASTING & ABRADING	THERMO FORMING, METAL SHAPING, ELECTRONICS	ARCHITECTURAL & COMMUNICATION PRINCIPLES	PLANNING & DESIGNING FINAL RECIPE - QUICHE	PLANNING & DESIGNING FINAL RECIPE – ARTISAN FOCCACIA	DESIGNING FURNISHINGS – TEXTILE DESIGN
	THEORETCIAL UNDERSTANDING OF MATERIALS & PROPERTIES.	REVISON OF KEY MATERIALS, TIMBERS & TEXTILES.	REVISION OF KEY MATERIALS & TECHNICAL SKILLS				REVISION OF MATERIALS – fibres and fabrics
PRACTICAL SKILLS: Process & Techniques	SPECIALIST TOOLS	Drilling, sanding machines, hand tools, jigs, marking gauges & tools, fret saw	Soldering, 2d design, laser cutting, drilling metals, metal bender, line bender.	Google sketch up / photoshop	Use of ovens, hob, mastering knife skills & accuracy	Use of ovens, hob, mastering knife skills & accuracy	Irons, sewing machines, fabric shears, dye cutter
	SPECIALIST TECHNIQUES & PROCESSES	Use of jigs, marking out in tolerances, use of machinery	Soldering, metal forming / shaping, riveting, cad/cam, thermo forming	Architectural rendeinrg, cad simulation	Pastry development, working with eggs, baking & raising agents	Food science – bread Food science – meat Frying, marinating	Applique, patchwork, hemming, use of templates & dye cuts
	USE OF MATERIALS / INGREDIENTS	Pine, plywood, mdf, textiles	Acrylic, aluminium, circuitry	-	Various according to set practicals.	Various according to set practicals.	Polycotton, bonda web, felt
SKILLS BUILDER 8 KEY SKILLS	Listening (Listening to Teacher Demo / peer feedback / peer support / following instructions for H&S)	X	X	X	X	X	x
Links to careers skills and building blocks across school wide	Speaking (Explaining processes / Peer teaching)	х		X	Х	Х	Х
	Problem solving (Design, making & practical tasks)	X	X	X	X	X	X
	Creativity (Diversity in design, designing for clients, pattern design, planning dishes)	X	X	X	X	x	x
curriculum	Staying Positive (resilience in all aspects)	Х	Х	X	Х	Х	Х
	Aiming High (challenge in projects & tasks)	Х	X	Х	Х	Х	Х
	Leadership (peer teaching, peer activities)	X	X	X	X	X	Х
	Teamwork (collaborative learning & activities)	X	Х	Х	X	X	Х

#### YEAR 8

Students complete **3** projects within **DT PRODUCT DESIGN**, building upon prior experience in year 7, stretching their understanding of processes in the workshop, as well as developing a more detailed understanding of material properties, design processes & design history. As in year 7, projects across all specialisms are completed in parallel across 2 main areas – Product Design/ Architecture and Food / Textiles. 3 key assessments per project are completed – one per half term (Research / Designing) which are fully DIRt'd and feedback given using assessment criteria. The final assessment is based on the final product / skills dish at the end of each project.

TERM 1 TERM 2 TERM 2 TEF	RM 3
AUTUMN 1 AUTUMN 2 SPRING 1 SPRING 2 SUMMER 1	SUMMER 2
PRODUCT DESIGN: Night Light (polymers) DESIGN: Design a with parameters & to specific brief Using A with parameters & to specific brief Using A to be develop calonidating to the analysis Mathematic & develops in a develop is optimized to use in modelling Mathematic & develops in a develop is optimized to use in modelling Mathematic & develops in a develop is optimized to use in modelling Mathematic & develops in a develop is optimized to use in modelling is a development of development in the product Thermo therming an expression is the briefly of terrybe: Header & Mathematic & Header & Development is a development of development development. SetSentifies Designer Research - Hange of CSE DT approved designers to choose from & Inspire designs. Final Product - Arybic CAD developed high light & electronic components. TEXTLESS: Literacy focused patchwork cushing of the development designer in during a patchwork cushing of the development design. I. Designer Research - Hange of CSE DT approved designers to choose from & Inspire design. Sinal Product - Arybic CAD developed hight light & electronic components. TEXTLESS: Literacy focused patchwork cushing of the development developmen	

	• EVALUATE:		
	<ul> <li>EVALUATE:         <ul> <li>Evaluating samples / processes</li> <li>Self-assessment of design research – impact on design ideas</li> <li>Self and Peer assessment of design development</li> <li>Self-assessment of final product.</li> </ul> </li> <li>TECHNICAL KNOWLEGDE:         <ul> <li>Decorative techniques – applique / embroidery / dye cutting</li> <li>Construction techniques – hemming, patchwork, templates</li> <li>H&amp;S of using textiles equipment safely</li> <li>Fibres and fabrics (revision) from year 7 to design using a range of materials – polycotton (woven) felt (bonded)</li> </ul> </li> </ul>		
	ASSESSMENTS: 1. Design research – Genre Research to inform designing.		
	<ol> <li>Final Design – Patchwork Cushion design development.</li> <li>Final Product – Patchwork cushion as per final design.</li> </ol>		
		PRODUCT DESIGN: Lego Hero!	
ODULE 2 / TERM 2		<ul> <li>DESIGN:         <ul> <li>Designing for client / user</li> <li>Designing for specific brief – Lego Herol</li> <li>Design using different projections and using high level communication techniques to develop final proposal for manufacture.</li> </ul> </li> <li>MAKE /MODEL:         <ul> <li>Using a range of tools and processes to develop components for main Lego hero</li> <li>Drilling, wasting and abrading, marking out, use of templates and jigs, finishing processes and customisation.</li> </ul> </li> <li>EVALUATE:         <ul> <li>Evaluation of design ideas – final development</li> <li>Evaluate existing products in product disassembly</li> <li>Self-assessment – design ideas</li> <li>Self-assessment – manufacturing processes</li> <li>Self-assessment &amp; evaluation – final product</li> <li>TECHNICAL KNOWLEGDE:                 <ul> <li>Motions and movements – reciprocal, oscillating, etc.</li> <li>Core Skills – manufacturing processes &amp; use of tools</li> <li>Communication of design ideas – use of drawing techniques and projections.</li> </ul> </li> <li>ASSESSMENTS:         <ul> <li>Product Disassembly – double page of disassembly of existing products</li> <li>Design Development – Iterative design, concepts and final proposal.</li> <li>Final Product – Functional and customised as per design – Lego Hero toy.</li> </ul> </li> </ul></li></ul>	
Š		FOOD 1 – Delicious! Recipes	
		<ul> <li>Design final quiche – customising for own dietary requirements &amp; flavour combinations</li> <li>Develop set recipes throughout practicals – customising dishes</li> </ul>	
		<ul> <li>WARE / WODEL:</li> <li>Time planning – shortcrust pastry (for final quiche skills dish)</li> <li>Making range of dishes as per set practicals – customisation &amp; development</li> <li>Final practical – quiche skills dish</li> <li>EVALUATE:</li> </ul>	
		<ul> <li>Evaluate recipes &amp; practicals throughout</li> <li>Self-assessment – famous chef research</li> <li>Self-assessment – special digts research</li> </ul>	
		<ul> <li>Sen-assessment – special diets research</li> <li>Final skills dish – evaluation against success criteria</li> <li>TECHNICAL KNOWLECDE:</li> </ul>	
		Recap H&S rules and kitchen routines	



	<ul> <li>Eatwell guide (revision from year 7)</li> <li>Work of others – famous chefs</li> <li>Energy &amp; Nutrients</li> <li>Food labelling &amp; Adverse reactions to food</li> </ul> ASSESSMENTS: <ol> <li>Work of others – Famous Chef Research / case study</li> <li>Specialist Diets Research</li> <li>Final Product / Skills Dish - Quiche</li> </ol>	
MODULE 3 / TERM 3		<ul> <li>ARCHITECTU</li> <li>DESIGN:         <ul> <li>Develop co</li> <li>Use of stan specific bri</li> <li>Designing fi</li> <li>Designing fi</li> <li>Designing fi</li> <li>Developme</li> <li>Use of tool final design</li> <li>Rendering</li> </ul> </li> <li>EVALUATE:         <ul> <li>Designing final design</li> <li>Rendering</li> </ul> </li> <li>EVALUATE:         <ul> <li>Designing final design</li> <li>Rendering</li> <li>EVALUATE:             <ul> <li>Designing final design</li> <li>Rendering</li> <li>EVALUATE:                  <ul> <li>Designing final design</li> <li>Rendering</li> <li>EVALUATE:                     <ul> <li>Designing final design</li> <li>CAD skill de</li></ul></li></ul></li></ul></li></ul></li></ul>
		1. Fairtrade Poste

## URE / PD: Rescue Shelter

ore graphics / designing skills with architecture emphasis ndardised components / BSI design rules to develop designs for ief

for users – architectural design for rescue shelter

to scale

EL:

ent of skills in using CAD simulation to communicate designs Is / processes in Google SketchUp to develop initial concept into

lesign

using CAD to develop realistic designs.

- evaluating the needs of the user & creating effective design

of systems and building developments to support design ideas the needs of users to develop a functioning environment for those by natural disaster.

#### NOWLEGDE:

levelopment on Google Sketch up

cation techniques – designing architecturally

ers Research use of architectural and key designing tools - CAD developed simulation of final rescue shelter using

## od Around the World

al artisan focaccia – customising for own dietary requirements & mbinations. Emphasis on presentation of toppings. et recipes throughout practicals – customising dishes EL:

ning / food science – bread making

nge of dishes as per set practicals – customisation & development ical – quiche skills dish

ecipes & practicals throughout sment – Fair trade – impact on food production sment – food from around the world dish – evaluation against success criteria **NOWLEGDE:** nce – Meat

ce – Ivieat

nce – Bread enance & food miles

liets

## **YEAR 7 OVERVIEW OF PROJECTS:**

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# YEAR 8 OVERVIEW OF PROJECTS:





FOOD: Tutti Frutti

TARTING THIS PERSON THE WALL MAKE.

2. Food around the World Case study 3. Final Product / Skills Dish – Artisan Focaccia Bread