Year 8 Curriculum Implementation: Design and Technology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Design and make a useful textile product for a client:	Fabric decoration and embellishment	To create a small storage box for a client	Mark out and cut base	●Food safety – preventing food	Blending, cooking a meat sauce,
	Besign and make a asertal textile product for a citem.	Construction using sewing machine	with CAD/ CAM decoration	CAD design - lid decoration	poisoning	creaming method
	Fabric decoration - Direct Painting	Manufactured Synthetic fibres theory	•Polymers – theory	Mark out and cut lid	 Peeling, grating, combining, frying, 	Understanding allergens
Knowledge &	Fabric decoration - Stencil Printing	Natural Regenerated fibres theory	Analysis of existing products	CAM lid design	baking, rolling	•Interpreting food labels
Skills	•Initial design ideas and development		•Initial design ideas	Manufacture of product	Making and shaping a bread dough to make bread rolls and pizza	•Food waste
		•Final design proposal		Development of design ideas Manufacture of product		Using frozen and canned ingredients to
	Make Templates and plan production		Mark out timber and cut to length Mark out and cut lap joints	Review and Evaluation	Analysing and improving own diet compared to the EatWell Guide	cook to a budget
			- Ivial k out and cut lap joints		compared to the Edition Calde	
	 Learnt that a pattern/template can be used many times and that this ensures consistency in size – Yr7 RM Worked independently and systematically using a step-by-step plan to sequence their work – Yr7 Textiles, Design and RM Used appropriately a variety of temporary and permanent joining techniques, using textiles – Yr7 Textiles Used specified hand-tools and sewing machines to cut and join materials safely – Yr7 Textiles Texture, e.g. rubbery, sandy, waxy, soft, rough, hairy, bumpy, and smooth – yr7 Textiles, Design, RM Appearance, e.g. flat, dull, shiny, glitter – yr7 Textiles, Design, RM 		•learnt how materials and components can be used – Yr7 RM, Tex, Design •used CAD/CAM to produce a simple component – Yr7 Design •joined and combined materials and components accurately in temporary and permanent ways – Yr7 Tex & RM •classified materials by their properties and sources- Yr7 Tex, RM, Design •considered basic surface finishes – Yr7 RM, Tex •considered physical properties – Yr7 RM, Tex, Design •become aware of how extraction, use and eventual disposal of some materials		Vegetable knife skills taught in Y7	Melting method of cake making
					Scone making y7 leads to bread making	taught in y7
					Healthy eating taught in y7	
Links to prior					l	
learning						
						,
			•Yr7 RM, Tex, Design	affect the natural environment		
	Generating and developing an idea for a client	Made a useful product for a client	Generating and developing an idea for	Made a useful storage product for a	Time planning pizza making	Making skills
Accomment		·	a client	client		
Assessment						
	Collect a range of images of existing products to inspire design wor	 	polymers worksheet- exam style	•spellings	Organise ingredients	Food waste long question
	Collect a range of images of existing products to inspire design wor Collect pictures from a variety of sources relating to a theme and p		questions	maths questions	• Organise ingredients	Organise ingredients
Home	Look at costing of a product and associated mathematics	Nouvee a Mood Board	• client research	•		• Organise ingredients
learning	•Spelling of technical words		• product research			
			•			
	• Explore creative surface design: direct painting and stencil printing		Understanding different materials (timber to be a second of the sec		Making food from different cultures - Polish potato cakes, Italian pizza and	Making food from different cultures –
Cultural Capital and		Develop design thinking: from initial ideas to final proposals		Exploring how products are designed for function and style Developing practical woodworking and joinery skills		Mexican burritos, Dutch Apple cake
extra-	 Learn practical skills: templates, production planning, embellishment, and sewing Understand fibres: synthetic, natural, and regenerated materials 		Using CAD and CAM for creative digital design		bolognese	
curricular	Connect learning to fashion, textiles, and surface design industries		Building creativity, problem-solving, and resilience			
opportunities	•Appreciate responsible use of materials and sustainability		Evaluating designs against client needs and the need for quality			
			1	Linking traditional techniques with modern design practice		
	• Talk about ideas and explain choices of materials and techniques.		 Reading and interpreting design briefs Using technical vocabulary (materials, tools, processes) 		 Reading and following a recipe Tier 3 vocabulary – biological 	 Reading and following a recipe Tier 3 vocabulary – allergens,
Literacy	Use technical words correctly: stencil, embellishment, template, synthetic fibres, regenerated fibres. Read instructions, diagrams, and templates to follow plans safely.		Osing technical vocabulary (materials, tools, processes) Annotating design ideas with explanations		raising agent, fermentation,	mandatory
2.55.25,	Write step-by-step plans and annotate designs.		Writing evaluations and justifications of design choices		landing agent, rememberly	,
	•Reflect on work: what went well, what was learned, and how to im	prove.	Communicating ideas clearly through	h sketches and notes		
	Measurement for seam allowances		Measuring and marking timber accurate	•	•Estimating timings for steps in a recipe	 Measuring accurately – tsp, tbsp, ml, g
Newson	•Estimating, e.g. speculate on the amount of paper needed to produce templates		Calculating dimensions for lap joints and base Applying and in CAD designs.		Measuring liquids accurately	
Numeracy	Timing stages of production Diagram of the stages and working drawing drawin		Applying scale in CAD designs Estimating material requirements and minimising waste			
	Making templates/ patterns dot and cross paper		Interpreting data on product performance and client needs			
Careers	• Fashion & Textile: Fashion designer, textile designer, costume desig	ner, pattern cutter	Design & Product Development: Product designer, industrial designer, CAD/CAM		Bakers and chefs	New product development in food
Information,	• Product & Manufacturing: Product developer, sewing technician, quality control, materials scientist		technician, prototype/model maker			industry
Education, Advice and	Sustainability & Ethics: Upcycling designer, ethical fashion advocate Sustainability & Entrangan auricle Coeff anthrongen auricle and a signal and a signal are a sustainability.		Manufacturing & Craft: Furniture maker/carpenter, quality control Crafting & Entrangal Properties designer, maker/craft entrangal properties designer, maker/craft entrangal properties designer.			•Regulatory roles in food safety
Guidance	Creative & Entrepreneurial: Craft entrepreneur, surface pattern des	signer, markeτing & branding	Creative & Entrepreneurial: Decorative designer, maker/craft entrepreneur			
(CEIAG)						
	Appreciate wonder, textures, and creative effort.	44	Pupils reflect on their creativity, skills, and resilience as they design and make. They design for a glicate and the sign of the si		Appreciate the wonder of yeast making	Consider ethics of wasting food when athers lack food socurity.
Spirituality	Use imagination and problem-solving to create useful, original products. Reflect on sustainability, ethical choices, and personal values.		•They design for a client, considering how their work can meet others' needs and add value		bread rise Joy of cooking food for oneself and	others lack food security •Impact of food waste on the
Spirituality	nenees on sustainability, ethnoci enoices, and personal values.		•Exploring materials and processes inspires awe at creativity and the wider patterns		others	environment
	Tell with war skill should be a sixty		of creation		- Committee in the state of the	Occasion in the little
	•Talk with your child about design concepts, colours, patterns, and inspiration		•If possible, supervise safe use of tools for measuring, marking, or simple		Organise ingredients Encourage students to make or adapt	Organise ingredients Discuss how food looks, tastes and
	 Visit museums and galleries Encourage planning of activities at home – transferable skills 		 construction at home Talk about material properties and sustainable options in everyday products 		recipes again at home	smells
How can	•Support practical work: Supervise safe use of paints, stencils, need	Encourage reflection on what worked well and what could improve in situations.		recipes again at nome	SHEIS	
parents support the	home					
curriculum?	•Explore materials: Discuss different fibres (synthetic, natural, regen					
		courage your child to think about sustainability, ethical material use, and how their				
	everyday choices could be useful or meaningful •Celebrate creativity: Recognise effort, problem-solving, and person	eativity: Recognise effort, problem-solving, and personal expression				
L	- colourate disadivity. hecognise enort, problem-solving, and person	iai expression			I .	