

Subject: Design Technology

Year group: 8

Department Curriculum Vision: *Learning about design and technology helps our students understand the world in which they are living and actively engage in it.*

At KS3 Design Technology we teach a carousel format where students spend 13 weeks in one DT subject then move to the next.			
	Art Textiles (13 weeks)	Food (13 weeks)	Product Design (13 weeks)
Content: (Know what...)	Students design and make a noughts and crosses (tic-tac-toe) game using reclaimed textile materials. This is an opportunity to explore sustainability in design by repurposing old fabrics and materials into a fun, functional game. They will employ various textile techniques to craft a unique and creative version of this classic game.	Students will learn the foundational understanding of grains, their nutritional benefits, and the essential skills needed to create a variety of bread and baked products.	In this project, students will design and manufacture a pine keepsake box using timber and a range of manufacturing processes. The project will introduce pupils to the principles of product design, focusing on accuracy, functionality and aesthetics. Students will develop practical skills by producing finger joints, fitting a hinged lid and using CAD/CAM techniques to add laser cutting and engraving to personalise their design. They will also explore surface finishes by applying paint and varnish to enhance the appearance of the product and protect the timber.

Skills: (know how...)	Noughts and Crosses Basics of using a sewing machine Decorative techniques Research artists Analysis of work Design and development of ideas	Grains and their uses • Food hygiene • Building on use of kitchen equipment • Nutrition and healthy eating • Recipes using grains	Keepsake Box Project • Types of timbers • Mechanisms • Timber manufacturing processes • CAD/CAM • Wood Joints • Finishing techniques
Key vocabulary	Seam Seam allowance Patchwork Quilting Appliqué Reverse Appliqué Annotation samples	Weighing and Measuring Creaming Technique grain Rubbing in wholemeal Carbohydrates Fibre Flour	Timber CAD/CAM Finger Joint Laser cutting Engraving Varnishing Finishing Manufacturing
Mid Term Assessment	Mid unit: knowledge of equipment and techniques.	Mid unit: knowledge of equipment and techniques.	Mid unit: knowledge of equipment, techniques and theory knowledge
End Term Assessment	End of unit: final outcome assessed.	End of unit: practicals assessed.	End of unit: final outcome assessed and theory knowledge.
Additional information			

Homework	Natural fibres research Artist research Art movement research	Bringing in ingredients Planning recipes Uploading Photographs of Plated dishes and evaluation	Materials, Tools, Joining methods, Equipment and Recording manufacture diaries
Extra curricular and enrichment opportunities	Textiles Club	Food club	
Useful links that will support learning	Stitch Dictionary	Allrecipes UK - Recipes and cooking ideas for British and Irish cooks BBC Good Food Recipes and cooking tips The Best Cooking Websites	www.technologystudent.com KS3 Technology and Design - BBC Bitesize
How parents can support learning	Checking Satchel One and ensuring homework tasks are complete. Encouraging students to attend extra curricular clubs	Checking Satchel One and ensuring homework tasks are complete. Encouraging students to attend extra curricular clubs Helping students purchase ingredients and practice dishes at home, cooking	Checking Satchel One and ensuring homework tasks are complete. Encouraging students to attend extra curricular clubs