Subject: Design Techno	logy / Cooking & Nutrition Subject Leader: Mrs Fox	Year Group: 7	TERMLY ROTATION
Торіс	Key Learning Points	Key Vocabulary	Assessments
Rotation 'A'	END POINT: Manufacture a Lego style box using a rebate joint and drop lid	Design brief, renewable, durability, brittle, hardwood,	Formative assessment, checking understanding 8
Traditional woodwork	The Lego box	softwood, man-made board, solutions, precision,	progress during each lesson.
	Students will:	millimetres, right angle, degrees, tenon saw, rebate	'Forms' Summative
	• Learn how to analyse a brief for designing / manufacturing for a client's needs.	joint, adhesive, pine, MDF,	assessment used half
	• Learn to analyse existing solutions and materials (aesthetics, durability, usability).	panel pin, perimeter, scroll	termly to assess
	• Learn to mark out material using core mathematics skills (measuring in millimetres, using a try square to measure within 1 degree of a 90-degree angle) i.e. preparing	saw, PPE, pillar drill, dowel joint, laser cutter, finish,	understanding of key learning points.
	wood for cutting without waste.	abrasive, filler, drill bit, primer.	
	 Learn how to be correct & safe using hand and power tools (saws, files, drills, hammers, sanding equipment). 	princi.	
	 Learn about simple wood joints; uses and manufacturing, e.g. using rebate joint, butt joint or dowel joint. 		
	 Learn about different types of fixings; temporary & permanent (screws, nails, panel pins, wood glue, hot glue & contact/grab adhesives). 		
	 Learn the computer programme 2D Design, how to measure shapes accurately for output on the laser cutter. 		
	• Learn about, and how to integrate CADCAM (computer aided design/manufacture) into traditional woodwork practises.		
	• Learn the importance of, and be able to, apply finishes well (vanish, wax, paint, spray paint etc).		
	Learn to self and peer evaluate via production plan targets		
Rotation 'B'	END POINT: Make a bespoke working analogue clock, using CADCAM	Design brief, analysis, client, properties, durable, tactile,	Formative assessment, checking understanding &
Product Design	Bespoke designed Clock	hard wearing, grain, veneer, acrylic, man-made board,	progress during each lesson.
	Students will:	MDF, refine, graphics, gradient, inspiration,	'Forms' Summative
	 Learn what a design brief is and be able to explore this context. 	presentation, innovative,	assessment used half
	 Learn about target markets (gender, age group, inclusivity) and why this is important for good design. 	development, consideration, CADCAM, precise, assembly,	termly to assess understanding of key
	 Learn about the work of Ettore Sottsass within the Memphis design movement and know how to describe key features of his work. 	mechanism, analogue, fixing, net, adhesive, engrave, tabs,	learning points.

Subject Curriculum Overview for Academic Year 2022/2023

	 Draw a variety of design ideas appropriately aimed at a chosen target market and be able to justify this by annotating these designs. Learn how to use the 2D Design computer programme by accurately measuring shapes and using tools appropriately to replicate a design. Understand how this translates onto the laser cutter. Learn about the properties of man-made boards such as MDF, ply and chipboard, and some plastics such as acrylic, Perspex and acetate. (Material property es such as durability, aesthetics, cost, ease of manufacture). Learn about the suitability of MDF (medium density fibreboard) and acrylic as construction materials. Learn why a specification is important to good design principles using 'ACCESSFM' as key aims – Aesthetics, Cost, Customer, Environment, Size, Safety, Function, Materials/Manufacture) and be able to reflect and evaluate progress via these specification targets. 	requirement, specification, evaluate.	
Rotation 'C' Food Preparation & Nutrition	 END POINT: To confidently and safely prepare and cook basic food dishes An introduction to Cooking & Nutrition Students will: Learn specific kitchen knife skills and when they should be used e.g. bridge and claw technique. Learn a variety of food preparation skills such as the rubbing in method, creaming method, shaping, cutting, rolling, kneading and proving. Know how to identify hazards and understand safety rules in a kitchen. Be able to name kitchen equipment and correctly identify its uses. Know and understanding the 4Cs for good food hygiene (cleaning, cross-contamination, cooking, and chilling). Learn how bacteria grows using the 4 key factors; warmth, moisture, food, time. Safely and confidently know how to use all parts of the cooker (hob, grill, oven). Know and understand the importance of eating breakfast – healthy/unhealthy, energy, Vitamin B and calcium intake. Be able to use the 'Eatwell Plate' demonstrating an understanding of portion sizes of protein, carbohydrates, fruit & vegetables, dairy, sugar & fats, and link these to a balanced diet. 	Allergy, analysis, antibacterial, bacteria, baking, boiling, budget, calcium, carbohydrate, chilling, consistency, contamination, fibre, glazing, hygiene, liquidise, mineral, nutrition, obesity, pathogen, protein, simmering, staple, stewing, toxin, vitamin.	Formative assessment, checking understanding & progress during each lesson. Hand written summative assessment used half termly to assess understanding of key learning points.

Subject Curriculum Overview for Academic Year 2022/2023

	 Understand different methods of cooking including the effects of cooking methods on food e.g. nutrient loss, ways to cook food to retain flavour and nutrients. Learn how to shop for food using a budget. 				
	 Understand sensory analysis (sight, smell, taste) using a star diagram, and how this helps to test and improve food. Know how to design a menu for specific client requirements considering culture, allergies, and dietary preferences. Understand the causes and prevention of food waste within society. 				
	How parents can support learning in the subject this academic year				
Practise usin	pendent practical skills by helping with household DIY / using tools to manufacture ideas wi g subject specific vocabulary in a sentence.				
Practise usinWatch cookiAcknowledge		these subjects.			
Practise usinWatch cookiAcknowledge	g subject specific vocabulary in a sentence. ng, design and manufacturing programmes to encourage enthusiasm and motivation within e and discuss the benefits of these subjects within the wider careers industry, supporting fu	these subjects.			
 Practise usin Watch cooki Acknowledge Encourage estimation You Can Drate You Can Drate The Book of KS3 Design & The Complet 100 Things to Engineering 	g subject specific vocabulary in a sentence. ng, design and manufacturing programmes to encourage enthusiasm and motivation within e and discuss the benefits of these subjects within the wider careers industry, supporting fur xcellent page presentation and explore / research during homework tasks.	these subjects.			

Years 7 & 8 study a different Technology specialism each term. There are approximately 12 weeks of study for traditional woodwork, product design or electronics, and cooking & nutrition. We welcome students taking their products home with them at the end of the rotation, and food at the end of each practical lesson. Whilst we supply all materials for manufacture, batteries may need to be purchased by yourselves for products requiring them. Cooking ingredients should be purchased by yourselves, and will be uploaded to epraise a minimum of 2 days before they are needed in school.