



Design Technology School Curriculum Map

Teachers review the sequence of teaching throughout the year and use their discretion to adapt, revisit or reteach content when necessary to support the learning of our students.

Design Technology	Year 7	Year 8	Year 9	Year 10	Year 11
DT	Introduction to DT research, designing, manufacturing, planning, evaluation	Research, designing, manufacturing, planning, evaluation	Research, designing, manufacturing, planning, evaluation Design briefs		
Food Preparation and Nutrition	Introduction to Food Preparation and Nutrition Food hygiene and safety, nutrition, basic food preparation techniques, knife skills, sensory evaluation	Baked products Healthy eating and nutrition, baked food preparation techniques, cooking for specific target markets, sensory evaluation	International foods Healthy eating and nutrition, savoury food preparation techniques, cooking for specific target markets, sensory evaluation, foods from around the world	Autumn Term 1 GCSE Introduction Nutrition, diet and health Macronutrients NEA Food Science investigation task	Autumn Term 1 NEA1: Food Science Investigation
				Autumn Term 2 Nutrition, diet and health Micronutrients, energy, dietary diseases Mini NEA Food preparation task	
				Spring Term 1 Food Science, NEA Food Science investigation task	Spring Term 1 NEA2: Food Preparation task Practical technical skills, planning 3 hour practical assessment
				Spring Term 2 Food Science Food Safety Sensory Evaluation Food Choice NEA Food Science investigation task	

				Summer Term 1 Food Choice, Food Provenance Exam preparation Mock NEA Food preparation task – research	Summer Term 1 Exam preparation
				Summer Term 2 Food Provenance Mock NEA Food preparation task – planning, practical, evaluation	Summer Term 2 Exam preparation
GCSE Design and Technology (Product Design)	Product Design module 1 CAD/CAM, graphics, ruler, properties of materials, structures	Product Design 1 Mechanisms, Designing without boundaries, Modelling, Orthographics	Storage products hand and machine tools, wood joint techniques, designing for client, Paper bridge and tower team challenges	Autumn Term 1 GCSE Introduction New and emerging technologies Personal/Business logo CAD	Autumn Term 1 NEA Section A: Investigation Section B: Design Brief and Specification Section C: Design ideas
				Autumn Term 2 Phone dock project Communication techniques Design strategies Material choices, properties	
				Spring Term 1 Working with polymer, aluminium and plywood Material sources, stock forms, sizes and finishes Tolerances	Spring Term 1 NEA Section E: Manufacture prototype. Production plan Material management
				Spring Term 2 Architecture project Systems designing Energy generation and storage	Spring Term 2 NEA Section F: Evaluation and Testing Exam preparation

				Summer Term 1 New Materials Mechanical devices Forces NEA Preparation	Summer Term 1 Exam preparation and revision
				Summer Term 2 Start Non Exam Assessment (NEA) Section A Investigation: research problem, client interview, product analysis Ecological and social footprint Scales of production Y10 Exam preparation	Summer Term 2 Exam preparation and revision
Textiles	Textiles Use of sewing machine and other equipment, where textiles comes from, decorative techniques, drawstring bags)	Textiles E-Textiles, multi material products, freestanding lights, sublimation printing, Using the sewing machine- various stitches, injection moulding	Interior design textiles products Fabric decoration techniques, designing for a client, planning, use of sewing machine	Not currently delivered but offered as a GCSE Option	Not currently delivered but offered as a GCSE Option

Construction	Year 10	Year 11
BTec	<p>Unit 2 - Exploring Carpentry and Joinery</p> <p>Materials Tools and techniques. Preparing to work with tools materials and equipment. Experimenting with different materials and joining methods. Production of a timber frame using a range of wood joints. General Construction theory.</p>	<p>Unit 3 – Construction Design.</p> <p>Understanding the construction industry. The role of the architect in the Construction industry. Designing a residential / commercial building to a set of given requirements.</p> <p>Unit 1 (Exam) – Technology in Construction.</p> <p>Revision and exam prep.</p>