



# Design Technology Curriculum 2022-23


 CONSETT ACADEMY	Food Rotation (x 1 term)		Design & Technology Rotation (x 1 term)		Graphics and CAD Rotation (x 1 term)	
	12-15 lessons		12-15 lessons		12-15 lessons	
<b>Year 7</b>	Eatwell Guide Food Groups Hygiene and Safety	Cooking Methods Energy	Materials - Timber Health & Safety	Product Analysis Intro to Textiles	Graphics/Nets Food Labels	2D Design Nutrition & Portion Sizes
<b>Year 8</b>	Eatwell Guide Advice Bacteria and Temps	Sensory Evaluation Local and Seasonal	Materials - Multi Manufacturing Techniques	Electronics & programming	Origins of materials Pop up mechanisms	Ergonomics Modelling
<b>Year 9</b>	Macronutrients Micronutrients	Life Stages: Nutritional Needs, Culture	Materials - Metals Pewter Casting	Materials – Timber and plastics Storage Product	User Needs Design Ideas	Design Communication Skills

	GCSE Design Technology					
 CONSETT ACADEMY	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
	3.1 Core technical principles		3.2 Specialist technical principles			3.3 Designing & making principles

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<b>Year 10</b>	<b>Materials and material properties</b> Fabrics, metals, CAD and composite materials	<b>Materials and material properties</b> Paper and Boards Polymers	<b>Materials, New and emerging technologies</b> Timbers Industry and Enterprise Energy generation Energy storage	<b>Manufacturing products</b> Scales of production Specialist techniques & processes Surface treatments and finishes	<b>Applying specialist technical principles</b> Material Properties Forces and Stresses Systems approach Work of Others	<b>NEA Research &amp; analysis</b> (section A 10 marks) Design brief & spec (section B 10 marks)
	3.3 Designing & making principles					
<b>Year 11</b>	<b>NEA Design Ideas</b> (section C 20 marks)	<b>NEA Developing ideas</b> (Section D 20 marks)	<b>NEA Realising ideas</b> (Section E 20 marks)	<b>NEA Analysing and evaluation</b> (Section F 20 marks)	<b>Exam practice-based revision</b> for written exam	

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	OCR Cambridge Nationals - Engineering manufacture					
 CONSETT ACADEMY	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
<b>Year 10</b>	Engineering drawings and preparation for manufacture	Manufacturing processes – wasting	Manufacturing processes – Shaping and joining	Manufacturing processes – forming, additive, finishing	Manufacturing in quantity	Introduction to CAD/CAM
<b>Year 11 (23/24)</b>	CNC machine operation	Engineering drawings and preparation for manufacture	Quality control in manufacture	Principles of engineering manufacture	RO14 resit opportunity	