

<u>Curriculum Overview – Engineering</u>

Year	Overview	KS3 Rotation based on 13 hours of study		Student Resources
7 8	Students to become familiar with working safely in the workshop. Students need to be able to identify tools and work safely on a range of materials. Students will also develop design pages. Students to gain a deeper knowledge of working within the workshop. Use of CAD CAM is also developed in this year to deepen students understanding of the engineering industry.	Simple flat shape of my own – CET SOL Identifying SL of a design page and tools in the workshop. Development of design pages. Safe working in the workshop. Development of techniques with tools and materials. Your pattern in relief – CET SOL Identifying SL of a design page and tools in the workshop. Development of design pages. Safe working in the workshop. Development of techniques with tools. Development of trechniques with tools. Development of machines in the workshop. CET Assessment covering all above topics A symbol – CET SOL Designing skills 2D Design CAD software Laser cutter CAM software Peveter machine Metal work skills Performance OF CAD/CAM – CET SOL Orthographic drawing on paper 2D Design Orthographic drawing on paper 2D Design Orthographic drawing cAD Google sketup skills CAD Tinker cad designing 3D printing	Key Stage 3 End of rotation testing	www.technologystudent.com www.technologystudent.com
9	Year 9 students will look at processes in an engineering environment. Students will learn to use all the machines in the workshop and begin to undertake larger practical's taking on more of a independent role.	Students will work on — Pillar drills/Bench drills Line bender Hot works area Pewter machine Vacuum former 3 in 1 metal manipulator Ban facer Powder coating CET Assessment covering all above topics		www.technologystudent.com



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Year	Overview	Autumn 1 (Weeks 1 – 7)	Autumn 2 (Weeks 8 – 14)		Spring 1 (Weeks 15 - 20)		Spring 2 (Weeks 21 - 25)		Summe (Weeks 26				Student Resources
10	Year 10 students gain an over all knowledge of engineering. From engineering disciplines and H+S to different materials used in an engineering industry. In the summer term students put this knowledge together and produce a mock controlled assessment in practice for their real one in year 11.	 Hand-drawn engineering drawings Computer-aided design (CAD) engineering drawings 		Stage 4 Formal Assessments – Classroom Based	Properties, ch selection of experiments Engineering to machines Applied procestechniques Production places	ngineering ools, equip essing skills anning tec	g materials pment and s and chniques	Key Stage 4 Formal Assessments – Classroom Based	for controlled a skills learnt in t	olled assessment in preparation and assessment in year 11. Using in term one and two.			Flash cards www.technologystudet.com
		Summative assessment – End of topic tests based on past exam questions.			Summative assessment – End of topic tests based on past exam questions.		Key	Summative assessment – End of topic tests based on past exam questions.		ι.			
11	Students in year complete their mock assessment and identify ways their process could be improved. Student them complete their controlled assessment and revise for the written paper.	Mock controlled assessment in preparation for controlled assessment in next term. Revision for exam unit.		. – Classr n	Intro into coursework Completion of 18H coursework Teaching time splitting up 18H formal to boost coursework	Teach splitt forms cours outco		Examinations A – Classroom sed / Exam Room	Exam Revision	GCSE EX	Examination Window		Flash cards www.technologystudet.com
		Summative assessment – E based on past exam question	nd of topic tests ons.	Year 11 Mock Exal	Summative assessment – End of topic tests based on past exam questions.	Sumr asses of top based	mative ssment – End opic tests od on past n questions.	Year 11 Mock Exal					