<u>Co-op Academy Walkden Curriculum Overview 2022/23</u>



KS4 Engineering

Year Group		AU1	AU2	SP1	SP2	SU1	SU2
11	Core Theme	ere Theme Engineering Design- Unit 2		Producing Engineering Products - Unit 2' Making based task in the workshop		Exam Preparation / Practical Portfolio Completion	Exam Preparation- Resits
	Intent Draw engineering design solutions/Drawing Skills progressing to create Portfolio at Unit 1 (communicate design ideas) and interpret engineers info in Unit 2		Demonstrate learnt knowledge using hand-tools, machinery, mathematical skills.		Preparation for external exam: Revision and assessment. / Final completion of Practical tasks and written portfolio.	Preparation for external exam: Revision and assessment.	
	Unit of Work	Various drawing skills tasks to communicate effectively Includes 3 rd Angle Ortho Projection Sectional Views Isometric Drawing Drawing Skills to create Por Development of onshape a into a working CAD drawin Convert between isometric angle orthographic project Reverse Engineering of pro Reverse engineer a relevan (phone chargers) Demonstration of Engineer	in 3D. tfolio. nd converting sketches g. sketches and 3rd ons duct: t product for analysis. ing Processes, in a	 Workshop Based Assessme Machining & Tooling assessite teacher/Eduqas set criteria. Drawings etc. to be supplied Current project: Desktop Lamp Approxim must be evident in their drawings will be supplied 	ment task following Resources (Brief, १). nately 9 processes task. Engineering	Students will ensure portfolios are completed for submission in May 2023. Students will use learning from the development of practical skills and H&S requirements of a range of engineering processes and revise year 10 theory completed on their knowledge around materials, calculation and processes.	Students will use learning from the development of practical skills and H&S requirements of a range of engineering processes and revise year 10 theory completed on their knowledge around materials, calculation and processes.
	Cultural	practical environment where possible. Dwg Conventions (british standards)		Involve local suppliers, material and trades.		I Involve local suppliers, material and trades.	
	Capital	also internationally recogn overseas.	sed for working				