KS4 Design Technology Curriculum

	OCR Cambridge Nationals - Engineering manufacture					
CONSETT ACADEMY	Autumn Term		Spring Term		Summer Term	
	HT1	HT2	HT3	HT4	HT5	HT6
Year 10	Interpreting engineering drawings Manufacturing processes – Measuring and marking out, wasting Materials – Ferrous, non-ferrous metals and alloys	Planning manufacture and risk assessment Manufacturing processes – Forming and joining Materials – Thermosetting and thermoforming polymers	**R015 (NEA) assessment** – Manufacturing a one-off product	**R015 (NEA) assessment** – Manufacturing a one-off product	Manufacturing processes – Shaping, additive, finishing Scales of production manufacturing in quantity Introduction to CAD/CAM	CAD 3D modelling CAD simulation CNC Machine operation
Year 11	**R016 (NEA) assessment** – Manufacturing in quantity Materials – ceramics, composites and smart	**R016 (NEA) assessment** – Manufacturing in quantity	**R014 external assessment** – Principles of engineering manufacture	R014 resit preparation – Principles of engineering manufacture	**RO14 resit opportunity**	