1a) Intent: The NCFE qualification provides a broad introduction to Engineering and different disciplines within Engineering in order to inform students on where their career may take them and which parts of Engineering are of interest to them. Engineering firms in the local area and nationally are desperately in need of young people wanting to come and work in the industry. The OCR Engineering Manufacture course further develops their knowledge and practical abilities so that they are at an employable standard and have also further refined their career choices. Coupled together this combination of courses provides both the induvidual student and the employer base with better prospects in the future

1b) Careers and further study: Any field of Engineering such as mechanical, civil, biomedical, electronics and electrical are options for students who have taken these qualifications. This may be as an apprentice at 16 or after further study of either vocational courses such as the BTEC Level 3 Engineering or A-Levels. After this routes into Engineering range from employment, University or Degree level apprenticeships both in the UK and abroad.

2) Implementation: What do we do in lessons? The courses are built around five lessons a week which are split into 2 workshop, 2 classroom and 1 computer room. This variety gives students a chance to study in a range of environments and put into practice what they have learned. They will all complete 3 pieces of coursework over the two years and have the opportunity to come out with two Level 2 Engineering qualifications alongside their other GCSEs.

Implementation –	Pedagogical ap	proaches includi	n <mark>g Rose</mark> n	shine prir	ciples of instru	iction						
Daily review is an important component of bits	New Material in Small Steps	Ask Questions	Provide Models	= O O O O O O O O O O O O O O O O O O O	Evide Student Practice	Check Student Und	herely ask "Are there ons are taken to mean htrast, more successful	tain High Success Rate	learning. They can include modelling, teacher thinking aloud, cue cards and checklists.	a necessary proce recalled automati	Practice	Weekly and Monthly Review 7 31 The effort involved in recalling recently -learned material embeds if in long-term memory. And the more this happens, the easier if is to connect new material to such prior knowledge.
Every unit of work has a series of quiz questions to help students recall key knowledge. These are used in lessons and for prep work.	Teachers define and chunk the steps for students to follow when learning new material. These steps are agreed across the department.	Teachers use cold calling, pair share and stretch it TLAC strategies to check for mastery. Questions are pre- planned.	The visual used acro department Teachers model to demonstration construct and creation	oss the nt. will 'live' ate how to analytical	Tasks and activities have been designed so that automaticity can be achieved. Repetition and revision is built into tasks.	 Specific mastery checks are embedded into SOLS so that teachers can check for mastery. 		We use I do, We do, You do to build students retention of key procedural knowledge and support automaticity.	Scaffolds are pre- planned so that there is consistency across the department. Testing includes memorisation of scaffolds.	Students repeat activities and tasks at spaced intervals to support learning of key procedural knowledge as well as knowledge.		• We map our quiz questions so that we can test core learning throughout the year. All SOLS have defined 'retention' knowledge.
KS4	Term 1	1 Term 2		Term 3 Te		Term 4		Term 5		Term 6		
Year 10 NCFE Level 1/2 Engineering	Disciplines CA2 – Applied Maths in Er CA3 – Reading			– Materials CA6 – Drawing E A7 - CAD Drawing		• •	CA8 – Production Planning Techniques CA9 – Applied Processing Skills and Techniques		Revision		Yr10/12 PPES	OCR Manufacture R014 – TA1 Manufacturing Processes
	safe working	Assess DT skills and teach safe working, basic hand skills and bench work CA5 – Tools, Equipn Machines Introduction to the P			NCFE NEA		NCFE NEA		NCFE NEA Introduction to the Lathe and Milling Machine			OCR Manufacture R015 – Manufacture a One-off Product
Year 11 OCR Level 1/2 Engineering Manufacture		TA1 – Manufacturing TA Processes Mate		ear 11 PPES	TA3 – Manufacturing Requirements		TA4 – Development in Engineerin		Revision		Exams and revision	
	OCR Manufa Manufacture	OCR Manufacture R015 – Manufacture a One-off Product		ear 11 PPEs	R016 – Manufacturing in Quantity		R016 – Manufacturin in Quantity	g Year 11 PPEs	R016 – Manufacturing in Quantity		Exams and revision	

3)Impact:

Data analysis of Summer exam series 2023

Y11 Grades	All students in subject %	SEN %	Disadvantaged (PP) %	Males %	Females %	Students to target	Action	Outcomes
L2D* - L2D	8							
Mar Mock L2D* - L2D								
L2D* - L2M	24							
Mar Mock L2D* - L2M								
L2D* - L2P	44							
Mar Mock L2D* - L2P								
L2D* - L1P	84							
Mar Mock L2D* - L1P								

Destinations:

UTC – 14 Students chose to stay at UTC Swindon to study STEM subjects

Apprenticeships- 7 obtained Engineering based apprenticeships Work placements-