NCFE Level ½ Technical Award in Engineering Curriculum Intent Y11						
	Autumn Term		Spring Term		Summer Term	
	1	2	1	2	1	2
	September-	November-	January- February	February- March	April- May	June-July
	October	December				
<b>Key Concepts</b>	8. Production	9. Applied	NEA		Exam	
	planning	processing skills				
	techniques	and techniques				
Knowledge &	8.1 The learner will	9.1 The learner will	Synoptic assessment	requires learners to	Review of theory	Review of theory
Understanding	understand how to	understand a range			elements of the	elements of the
	plan a	of processing skills	show accumulated k	nowledge and	course, in	course, in
	manufacturing task	and manufacturing	understanding acros	s the qualification	preparation for	preparation for
	safely and on time.	techniques –	content. It enables learners to evidence		their final exam	their final exam
		preparing,	their capability to int	egrate and apply		
		modifying, joining	knowledge, understa	nding and skills		
		and finishing	gained with breadth	and depth in		
		techniques applied	context.			
		to materials for a				
		manufacturing task.				
		The learner will				
		understand the				
		safe and correct				
		use of tools,				
		equipment and				
		machines.				
Assessment	End of topic	End of topic	NEA		Moderation of	NCFE- External
	assessment	assessment			coursework	Engineering Exam
					Revision for Exam	
Why this?	This unit provides learners with a broad		Students NEA is released in September of Year 11. The NEA			This method of
Why now?	and indepth knowledge base providing		covers all AOs on the exam, so once all exam preparation has			external
	the opportunity to explore the		been covered students will start their NEA. It will allow for			assessment
engineering sector. The learner will be		he learner will be	application of knowledge and understanding.		requires learners to	

	required to apply knowledge and	apply theory and				
	understanding through a mandatory	concept from				
	assessment which will be sat at the end	knowledge based				
	of Year 11. Students will also have a	learning outcomes				
	mock in Year 10.	in context to show				
	mock in real ro.	knowledge and				
		understanding of				
		the subject at the				
		appropriate level.				
		The examination				
		will allow for				
		application of				
		knowledge and				
		understanding				
		from across the				
		units and combine				
		content to develop				
		holistic				
		connections.				
		connections.				
Skills &	Commitment, effective communication and interpersonal skills, observation skills, professionalism, problem-solving skills,					
Characteristic	teamwork, reflective practitioner, marking, measuring., Independence, Retention					
	Evaluation	, II , J				
	Tradesman, Floatrician Dlumar, Joiney Builder, Francey Materials Civil Autor	native Design Chamical Clinesil Comes Designs				
Aspirations &	Tradesman: Electrician, Plumer, Joiner, Builder. Engineer: Materials, Civil, Automotive, Design, Chemical, Clincail, Games Design					
Careers	Graphic Designer, Product Designer, Construction Manager CAD Technician, Secondary School Teacher, Data Analysis					

Engineering								
Year	Basic (Lower Ability End Points)	Clear (Middle Ability End Points)	Detailed (Higher Ability End Points)					
Group	Level 1 Pass	Level 2 Pass	Level 2 Distinction					
10/11	<ul> <li>Recall and apply some knowledge and understanding, in a limited manner, that has some relevance and limited detail of engineering disciplines, science and mathematics in engineering drawings, properties and characteristics of engineering materials, tools and machinery, hand-drawn and CAD drawn engineering drawings, product planning techniques and applied skills and techniques</li> <li>Analyse and evaluate to make adequate judgements, with some reasoning and reach straightforward conclusions on engineering disciplines, science and mathematics in engineering drawings, properties and characteristics of engineering materials, tools and machinery, hand-drawn and CAD-drawn engineering drawings, product planning techniques and applied skills and techniques</li> <li>Safely and effectively demonstrate a limited level of skills, techniques and processes relevant to engineering when using a wide range of tools and equipment to implement a production plan, applying skills and</li> </ul>	<ul> <li>Recall and apply mostly relevant knowledge and understanding in a mostly detailed manner of engineering disciplines, science and mathematics in engineering drawings, properties and characteristics of engineering materials, tools and machinery, hand-drawn and CAD-drawn engineering drawings, product planning techniques and applied skills and techniques</li> <li>Analyse and evaluate to make mostly reasoned judgements and reach coherent conclusions on engineering disciplines, science and mathematics in engineering drawings, properties and characteristics of engineering materials, tools and machinery, hand-drawn and CAD-drawn engineering drawings, product planning techniques and applied skills and techniques</li> <li>Safely and effectively demonstrate mostly relevant skills, techniques and processes relevant to engineering when using a wide range of tools and equipment to implement a production plan,</li> </ul>	<ul> <li>Recall and apply highly relevant knowledge and understanding in a highly comprehensive manner of engineering disciplines, science and mathematics in engineering drawings, properties and characteristics of engineering materials, tools and machinery, hand-drawn and CAD-drawn engineering drawings, product planning techniques and applied skills and techniques</li> <li>Analyse and evaluate to make reasoned judgements and reach well-supported conclusions on engineering disciplines, science and mathematics in engineering drawings, properties and characteristics of engineering materials, tools and machinery, hand-drawn and CAD-drawn engineering drawings, product planning techniques and applied skills and techniques</li> <li>Safely and effectively demonstrate highly relevant skills, techniques and processes relevant to engineering when using a wide range of tools and equipment to implement a production plan, applying skills and</li> </ul>					

- techniques to a complex engineering piece
- Analyse and evaluate their own demonstration of relevant skills, techniques and processes applicable to the sector when planning and preparing completed engineering pieces in a reasonable, straightforward manner, with limited detail
- applying skills and techniques to a complex engineering piece
- Analyse and evaluate their own demonstration of relevant skills, techniques and processes applicable to the sector when planning and preparing completed engineering pieces in a mostly detailed manner
- techniques to a complex engineering piece in a highly comprehensive manner
- Analyse and evaluate their own demonstration of relevant skills, techniques and processes relevant to the sector when planning and preparing complex, completed engineering pieces in a highly comprehensive manner