	Autumn Term		Spring Term		Summer Term	
	1	2	1	2	1	2
	September-	November-	January- February	February- March	April- May	June-July
	October	December				
Key Concepts	1 Engineering	2 Application of SI	3. Reading	4. Properties,	6. Hand-drawn	7. Computer-aided
	disciplines through	units of	engineering	characteristics and	engineering	design (CAD)
	projects and	measurement	drawings	selection of	drawings	engineering
	products			engineering		drawings
		5. Engineering	5. Engineering	materials	5. Engineering	
	5. Engineering	tools, equipment	tools, equipment		tools, equipment	5. Engineering
	tools, equipment	and machines	and machines	5. Engineering	and machines	tools, equipment
	and machines			tools, equipment		and machines
				and machines		
Knowledge &	1.1 The learner will	2.1 The learner will	3.1 The learner will	4.1 The learner will	6.1 The learner will	7.1 he learner will
Understanding	understand	understand how SI	understand the	understand how	understand how to	understand CAD
	different	units of	British Standard	materials exhibit	produce hand-	software to
	engineering	measurement are	(BS) 8888 for 2D	properties and	drawn engineering	produce
	disciplines and how	used in	and 3D	characteristics in	drawings, apply	engineering
	their application	engineering	engineering	engineering	specific drawing	drawings. The
	has solved	products and	drawings.	products and	conventions and	learner will
	problems and	projects.		projects.	use layouts	understand the
	shaped the modern		5.1 The learner will		recognised within	specific drawing
	world through	2.2 The learner will	understand health	5.1 The learner will	the engineering	conventions and
	projects and	understand how	and safety, control	understand health	industry, following	layouts recognised
	products.	mathematical and	measures, and safe	and safety, control	British Standard	within the
		scientific equations	and correct use of	measures, and safe	(BS) 8888	engineering
	1.2 The learner will	are used in	common tools,	and correct use of	(education version).	industry, following
	understand the	engineering	equipment and	common tools,	, í	British Standard
	health and safety	disciplines to	machines used in	equipment and	5.1 The learner will	(BS) 8888
	legislation	calculate energy,	the engineering	machines used in	understand health	(education version
	governing the	force, motion,	industry for	the engineering	and safety, control	
	engineering		manufacturing,	industry for	measures, and safe	

used for marking	used for marking			safe and correct	and finishing.
out, cutting,	out, cutting,			use of common	5 2 The learner will
modifying, joining	modifying, joining			tools, equipment	5.2 The learner will
and finishing.	and finishing.			and machines used	understand the
and finishing.	and finishing.				
				in the engineering	safe and correct
				5 5	
5.2 The learner will	5.2 The learner will			industry.	use of common
				maustry.	
understand the	understand the			,	tools, equipment
safe and correct	safe and correct				
safe and correct	safe and correct				and machines used
					and machines used
safe and correct use of common	safe and correct use of common				and machines used in the engineering
safe and correct	safe and correct				and machines used
	safe and correct				
understand the	understand the				tools, equipment
				muusuy.	
				Industry.	
5.2 The learner will	5.2 The learner will			industry.	use of common
5 2 The learner will	5 2 The learner will			5 5	
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				in the engineering	safe and correct
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and finishing.	and finishing.			and machines used	understand the
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modifying, joining	modifying, joining			tools, equipment	5 2 The learner wil
5	5				
out, cutting,	out, cutting,			use of common	
5					and misning.
used for marking	used for marking			safe and correct	and finishing.
5	5		industry.		, , , ,
including those	including those	, ,	industry.	understand the	modifying, joining
manufacturing,	manufacturing,	industry.	in the engineering	5.2 The learner will	out, cutting,
industry for	industry for	in the engineering			used for marking
5 5	5 5		and machines used		5
the engineering	the engineering	and machines used	tools, equipment	and finishing.	including those
machines used in	machines used in	tools, equipment	use of common	modifying, joining	manufacturing,
				5	
equipment and	equipment and	use of common	safe and correct	out, cutting,	industry for
common tools,	common tools,	safe and correct	understand the	used for marking	the engineering
and correct use of	and correct use of	understand the	5.2 The learner will	including those	machines used in
measures, and safe				manufacturing,	equipment and
,	measures, and safe	5.2 The learner will	and mishing.		
and safety, control	and safety, control		and finishing.	industry for	common tools,
understand health	understand health	and finishing.	modifying, joining	the engineering	and correct use of
5.1 The learner will	5.1 The learner will	modifying, joining	out, cutting,	machines used in	measures, and safe
		out, cutting,	used for marking	equipment and	and safety, control
purpose.	geometric shapes.	used for marking	including those	common tools,	understand health
industry and its	electrical and	including those	manufacturing,	and correct use of	5.1 The learner will

Why this? Why now?	This unit provides learners with a broad and indepth knowledge base providing the opportunity to explore the engineering sector. The learner will be required to apply knowledge and understanding through a mandatory assessment which will be sat at
	the end of Year 11. Students will also have a mock in Year 10.
Skills &	Commitment, effective communication and interpersonal skills, observation skills, professionalism, problem-solving skills,
Characteristic	teamwork, reflective practitioner, marking, measuring., Independence, Retention, Application, Knowledge, Understanding, Evaluation
Aspirations & Careers	Tradesman: Electrician, Plumer, Joiner, Builder. Engineer: Materials, Civil, Automotive, Design, Chemical, Clinical, Games Designer, Graphic Designer, Product Designer, Construction Manager CAD Technician, Secondary School Teacher, Data Analysis