

## **Bishop Stopford's School**

Curriculum Map Year 11 Btec L1/ 2 Tech Award in Engineering

	curriculum Intent:						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
	Component 2-	Component 3-	Component 3-	Component 3-	Component 3-	Preparing for the next steps of an	
	Learning aim C: Plan the manufacture	Learning aim B- Provide a design	Revision of learning aims A-C	Revision of learning aims A-C	Exam window 2	engineering career	
	of and safely	solution for an engineered product	Exam window 1	-			
	reproduce/inspect/test a given	against the needs					
×	reproduce/hispect/test a given	against the needs					
õ	engineered component	or an engineering brief					
2		Learning aim C- Provide solutions to					
0		meet the needs of an engineering brief					
Ē							
	<ul> <li>Making using engineering processes.</li> </ul>	<ul> <li>Design sketching, to include 2D, 3D,</li> </ul>	Literacy				
	<ul> <li>Inspecting and testing a chosen</li> </ul>	exploded diagrams, annotation, circuit	Numeracy				
	solution.	diagrams.	Decision making				
	Safe preparation, good housekeeping	Design for manufacture, e.g.					
	and close down of the work area	fabricate forge cast machined					
10	Making skills associated with the	lubricate, forge, case, machinea.					
1	Iviaking skills associated with the						
s	product to be produced.						
Je	<ul> <li>Skills in observing and recording</li> </ul>						
ŭ	techniques, e.g. in process						
	measurement and						
	comparison.						
	<b>D</b> .f. 1	a development of a state of the second of the second					
	<ul> <li>Defining an engineering problem.</li> </ul>	<ul> <li>Analysing the existing product with rel</li> </ul>	rerence to the brief.				
	<ul> <li>Developing possible solutions.</li> </ul>	<ul> <li>Dimensions and tolerances, to include</li> </ul>	linear, radial, surface finish.				
	<ul> <li>Choosing a solution.</li> </ul>	<ul> <li>Physical form, to include 2D, 3D, flat, or</li> </ul>	urved.				
	<ul> <li>Evaluating the outcome of the</li> </ul>	<ul> <li>Attributes, to include low resistance, s</li> </ul>	harp corners, moisture traps.				
	project.	· Materials, e.g. aluminium, steels, poly	mers.				
	<ul> <li>Awareness of risks and hazards for</li> </ul>	<ul> <li>Processes, e.g. fabrication, drilling.</li> </ul>					
	making processes.	Identifying relevant issues with existing	design.				
	8 F	Design ideas, e.g. variation in form, va	riation in approach, use of different				
		methods	nation in approach, use of american				
		use of different components:					
		<ul> <li>Device the componentry.</li> </ul>	ideas aires the people of the brief				
		<ul> <li>Reviewing the credibility of the design</li> </ul>	ideas given the needs of the brief.				
ge		<ul> <li>Selecting the most appropriate design</li> </ul>	solution.				
ec		<ul> <li>Justification of the design solution.</li> </ul>					
2		<ul> <li>Justification of the processes to be use</li> </ul>	ed.				
ě,		<ul> <li>Types of engineering information, to in</li> </ul>	nclude production data, engineering				
ē		drawings,					
ja ja		job cards.					
0	<ul> <li>Interpreting patterns and trends related to the engineering information.</li> </ul>						
	<ul> <li>Identifying issues and causes associated with the problem</li> </ul>						
		1					
		1					
	Component 1- B1 The design process	<ul> <li>Component 1- LA A-B</li> </ul>					
8	<ul> <li>Component 2- A1 Materials, A3</li> </ul>	<ul> <li>Component 2- LA A-C</li> </ul>					
Ē	Processes , B1 Practical engineering						
189	skills.						
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	Knowledge retrieval activities are used at the start of each lesson to gauge understanding of content, this is followed by whole group feedback.						
ъ К	Th	e use of command verbs to direct object	ives and plenary activity responses, dev	eloping student understanding and guid	ing feedback that links to the specificati	on.	
pa	Feedback on Mock assignment	Whole group feedback provided on	Whole group feedback provided on	Whole group feedback provided on			
eq	focusing on C2 LAC utilising	mock examination results.	mock examination results.	mock examination results			
Pe	specification grading criteria		Contraction (Courts.	Contraction (ESUICS.			
ళ	specification grading criteria.						
t	Assistant F. Association of Control	1		1			
'ne	Assignment 5- Assessment of C2 LA C.						
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