

Year 11 BTEC Engineering

Year 11 Engineering involves students reflecting on the work completed in Year 10 and completing one final unit of work. By now, students will have completed component 1 and will have had a first attempt at the externally assessed component 3. Students who did not achieve their target grade in the external assessment will have the opportunity to re-sit. The component completed in Year 11 is:

- Component 2: Investigating an Engineered Product (30%)

Methods of deepening and securing knowledge:	
Spaced practice	The criteria for component 2 will be broken into manageable chunks for students to complete. As with most BTEC assignments, students have to produce set evidence to demonstrate knowledge and understanding. Rather than giving students the complete assignment brief, students will be expected to complete individual pieces of work with short deadlines, ensuring they stay on track and understand the requirements. Students who are re-sitting the external assessment will be given Independent learning to revise information learned in Year 10.
Retrieval practice	Students who re-sit the external component will need to revisit information and resources used in Year 9 and 10 to prepare them for the exam. Further to this, some of the work completed in Year 9 related to investigating and looking into the manufacture of an engineered product will help with the requirements of component 2. Students should already understand the areas of focus when analysing a product and will need to use these in their coursework in Year 11.
Elaboration	As in Year 10, students must elaborate on the information provided in their coursework to ensure they are providing enough evidence. Students will be encouraged to learn and demonstrate in-depth knowledge and understanding of the tools, materials and processes required to produce an engineered product.

	Autumn term 1	Autumn term 2	Spring term 1	Spring term 2	Summer term 1	Summer term 2
Topic(s)	C2: Investigating an engineered product - Introduction to the unit - Exploration of ideas and areas of focus - Students given engineered product to begin investigation	C2: Investigating an engineered product - Disassembling and analysing an engineered product - Producing design specifications	C2: Investigating an engineered product - Completing disassembly reports - Completing design specifications <i>Note: Those who are to re-sit component 3 will</i>	C2: Investigating an engineered product - Manufacturing one part of the engineered product - Inspection and testing - Developing production plans	Summary - During the final half term students can complete any outstanding tasks and use the trackers to ensure work is completed to a high standard	Exam preparation

			<i>do so during the February window</i>			
Assessment	<ul style="list-style-type: none"> - Formative feedback on work completed - Tracking and assessment shared following completion of 2 components in Year 10 	<ul style="list-style-type: none"> - Formative feedback on work completed 	<ul style="list-style-type: none"> - Formative feedback on work completed 	<ul style="list-style-type: none"> - Formative feedback on work completed - Students should receive new grades for component 3 during this term (if re-sat) 	<ul style="list-style-type: none"> - Students will use summative assessment to analyse and improve their own work 	

Independent Learning:

As with Year 10, engineering independent learning is time used for students to complete research and investigations that would take away from the important taught lessons. Students are expected to complete simple tasks and finish parts of their coursework to ensure that they are working to the deadlines given for each individual task.

Students who are to re-sit the externally assessed component are expected to revisit resources and work completed in Year 10 as well as attend extra intervention sessions to support and prepare them for the exam.