

Engineering PoS: Year 10 spring HT2

Students will learn about... Interpreting engineering drawings, generating production plans and a variety of practical skills. Final assembly and testing/ evaluation of product.		
Grade E	Grade C	Grade A
<p>Students will be able to do the following:</p> <p>Produce 3 or 4 simple production plans using basic information.</p> <p>Follow simple production plans using information from drawings and diagrams.</p> <p>Select and use materials parts and components for their product safely with guidance.</p> <p>Use processes, tools and equipment to make a product safely and with some skill.</p> <p>Undertake some testing of the Product and compared it to the specification.</p> <p>Describe how a CNC operation could be carried out.</p>	<p>Students will be able to do the following:</p> <p>Produce 4 or 5 production plans using information from the product specification.</p> <p>Follow production plans using information from drawings and diagrams.</p> <p>Select and use materials parts and components for their product safely with limited guidance.</p> <p>Select and use processes, tools and equipment to make a product safely and competently.</p> <p>Perform a range of basic testing of their product and compare it to the specification.</p> <p>Finished product complies with the main requirements of the specification.</p> <p>Describe how 3 CNC operations could be carried out.</p>	<p>Students will be able to critically assess and evaluate the following:</p> <p>Produce a full set of production plans using fully information from the product specification.</p> <p>Follow comprehensive production plans using information from drawings and diagrams.</p> <p>Independently select and use materials parts and components for their product safely with limited guidance.</p> <p>Explain which other materials, parts or components could be used and reasons for not choosing them.</p> <p>Independently select and use processes, tools and equipment to make a product safely and competently and effectively.</p> <p>Undertaken detailed and objective testing to compare their product to the specification. The finished product complies consistently with the standards required.</p> <p>Describe and carry out 3 CNC operations.</p>
<p>Assessment</p> <p>Assessment is based on an Engineering portfolio of written and photographic evidence and on the students' completed practical work.</p>		