

Subject	Year	Term
WJEC Vocational Engineering Level 2	11	1
Topic		
Unit 1 NEA		
Content (Intent)		
<p>Prior Learning –</p> <p>Unit 1 provides learners with the opportunity to interpret different types of engineering information to plan how to produce engineering products. Learners will develop knowledge, understanding and skills in using a range of engineering tools and equipment to produce and test a product.</p> <p>Unit 1 NEA is worth 40% of the final grade and in completing the task, students will interpret an engineering drawing, plan how to manufacture it and produce a high-quality product.</p>		
Future Learning (Topic) Unit 2 NEA		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
<p>Students will complete section 1 & 2 of NEA 1</p> <ul style="list-style-type: none"> • Understanding engineering drawings • Planning operations 	<p>Assessment</p> <p>This is a formally assessed piece of work, with only generalised feedback being given after each deadline. No marks will be issued until the final mark is given. This is under JCQ guidelines. The pupils will have a copy of the assessment criteria and can self assess throughout.</p>	
<p>Students will complete section 3 & 4 of NEA 1</p> <ul style="list-style-type: none"> • Using engineering tools and equipment • Implementing engineering processes 		
How can parents help at home?		
<p>You can support your child by discussing the coursework with them, allowing them to develop their portfolios at home and encouraging the students to have an aspirational attitude to their work. Please discuss different engineering careers with your child.</p>		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
<p>Reading</p> <p>Level 1/2 Vocational Award in Engineering WJEC – ISBN 1860857515</p> <p>Model Engineer Magazine</p> <p>How stuffs made – YouTube and Discovery channel</p>	<p>Vocabulary Lists</p> <p>Understanding Engineering Drawings: Scale, Finishes, Detail Views, Title Blocks, Orthographic Views, Sectional Views, Isometric Views.</p> <p>Engineering Tools & Equipment: Files, Scribes, Centre Punch, Tap and Die set, Hacksaws, Rivet Gun, Engineer’s Square, Callipers, Vernier Callipers, Micrometres, Reamers, Shears and Snips, Gauges, Knurling Tool, Boring Bar, Facing Tools, Parting Tool, End Mill, Vertical Milling Machine, Centre Lathe, Drilling Machine, Vacuum Forming, 3D Printing, Laser cutter</p>	