



Subject Specific Revision

WJEC Level 1/2 Engineering



<p>Subject: The WJEC level 1/2 Award in Engineering</p>	<p>Support:</p>
<p>3 Components; 2 INTERNALLY marked units (75%) And 1 EXTERNAL marked units, 25% each (on-line exam)</p> <p>The exam is a 1 hour on-line examination. First sitting June of Y10. Second opportunity June of Y11</p> <p>Students most successful attempt will be submitted for the award.</p> <p>The qualification is graded Level 1 Pass, Level 2 Pass, Level 2 Merit, Level 2 Distinction.</p> <p>Unit 1 –Engineering Design. INTERNALLY marked, Externally moderated (25%) Knowledge covers, how engineered products meet user requirements e.g. function, mechanical properties, size and cost. Being able to effectively communicate designs, ability to draw and sketch in 2 and 3D. Produce specifications and evaluate their design solutions.</p> <p>Unit 2 – Producing Engineering Products. INTERNALLY marked, Externally moderated (50%) Knowledge covers being able to interpret and read technical drawings to allow effective planning to safely manufacture a wide range of components in order to make a working Wind Vane, using marking out tools, bench work, centre lathe and pillar drill.</p> <p>Unit 3 – Solving Engineering Problems (25% on-line exam)</p> <p>Knowledge covers common mathematical formulas and their application to calculate volumes and areas. Understand the properties of a wide range of materials used within engineering disciplines and their environmental impacts. Understand technical drawing practices and conversion between 2 and 3D drawings. Understand common engineering processes used to manufacture products within engineering e.g. Material removal and joining and heat treatment.</p>	<p>Revision books/Resources</p> <p>Resource booklets to be given out in class.</p> <p>Homework to support extension of knowledge.</p> <p>Lunchtime and After School clubs when these are allowed.</p> <p>Many other resources offered to students in class, and links placed on Class Charts.</p> <p>http://www.design-technology.org/tvs.htm</p> <p>http://www.gcseinengineering.com</p>

WJEC Level 1/2 Vocational Award enables learners to gain knowledge, understanding and skills related to a specific vocational sector. This qualification also support learners to develop essential employable skills that are valued by employers, further and higher education.