<table>
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<th>Subject</th>
<th>Year 9 Metal Technology – Single Semester (1 or 2)</th>
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<td>Teacher(s)</td>
<td>Dave Jennings</td>
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**Subject Overview**

Emphasis is placed on maintaining student safety and confidence. They are encouraged to develop a higher level of substantive understanding of the properties of metals and of the machining and welding processes that can be applied to them. Student projects and processes allow students to engage with new and challenging activities that allow them to increase their skills, understanding and confidence in designing and delivering solutions.

**Course Content**

Students will complete projects working with a range of processes including Oxy Acetylene and GMAW welding operations and introduction to the metal lathe. There are also more complex applications of sheet metal cutting and forming tools. Very clear instructions will be given around processes and safety, but students are increasingly free to make design changes to the projects and find their own, best solutions to problems.

Assessment will include:

- Practical tasks
- Design and Planning tasks
- Safety and processes
- Workshop journal
- Theory and research
- Product Evaluation

**Assessment**

**Skills and Assessment Task:**

**Sheet Metal Fabrication Task**

Students are provided with the specification and instructions to construct a basic sheet steel box. They are then required to design, firstly, a specific lid to fit onto the box and achieve a particular goal and then a procedure and sequence to safely manufacture the lid.

Students are also required to produce an evaluation of the effectiveness of both the process and the list, suggesting possible improvements to either.

**Skills and Assessment Task:**

**Oxy Welding Skills Task**

Students initially complete a range of theory tasks in order to familiarise themselves with the crucial terminology and safety aspects of the welding apparatus. They then complete a range of practice welds to develop their skills in heat and deposition control in order to produce a series of skills pieces to demonstrate control of the equipment.