<table>
<thead>
<tr>
<th>Year</th>
<th>Investigating &amp; Designing</th>
<th>Producing</th>
<th>Analysing &amp; Evaluating</th>
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</thead>
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<td>7</td>
<td><strong>Class work consists of:</strong></td>
<td></td>
<td><strong>Introduction to the Design process including reflection, analysing and evaluating logical steps involved in constructing a project.</strong></td>
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<tr>
<td></td>
<td>- Safety in the workshop</td>
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<td>- Evaluating work processes, design features and techniques and skills learnt</td>
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<td></td>
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<td>- Limitations of the materials in use</td>
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<td>- Marking out using –Engineers square/Rule/Chalk/Pencil/Center punch</td>
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<td>- Cutting materials using – Scroll saws/Guillotine</td>
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<td>- Drilling holes using- Pedestal drill/ Pistol drill</td>
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<td>- Changing shape of Plastic using- Strip Heater/Oven</td>
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<td>- Scrolling metal for wrought iron</td>
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<td>- Use of File, Sandpaper, steel wool to prepare materials</td>
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<td>- Photo Frames</td>
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<td>- Candle Holder</td>
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<td>- Electronic Siren</td>
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## Class work consists of:
- Safety in the workshop
- Measurement using Millimetres
- Skill development using basic hand and power tools (One – two more complex tools used in the design)
- Development of the Design process including logical steps involved in constructing a project
- Considerations of different materials and the limitations or suitability to the task
- Creating working drawings of the project - Include all measurements/angles/joint structure/
- Producing a metal creation of the students choice, involving use of basic hand and power tools (One – two more complex tools used in the design)
- Detailed procedure for the project is written to display understanding and planning.
- Evaluation of tools procedures used and suitability of the materials chosen/skill level displayed and improvements needed.

### TECHNOLOGY METALS (Ausvels based)
MEREIN P-10 DESIGN, CREATIVITY TECHNOLOGY COURSE OUTLINE
TECHNOLOGY METALS (Ausvels based)

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<th>Class work:</th>
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<th>Evaluation of tools used and suitability of the materials chosen/skill level displayed and improvements needed.</th>
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<td>• Safety in the workshop (More complex tools and equipment are identified and the dangers that exist when using this type of equipment are discussed. All Personal Protective Equipment is identified and worn during use of these tools. Safety is specifically taught to satisfy OHS requirements)</td>
<td>• Detailed procedure for the project is written to display understanding and planning</td>
<td>• MIG Welding, associated cutting tools and techniques undertaken by the students are analysed and evaluated with teacher input into improvement techniques</td>
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<td>• Measurement using Millimetres is assessed to 3mm tolerance</td>
<td>• Producing one or more metal creation of the students choice, involving use of basic hand and power tools (More complex tools used in the design)</td>
<td>• Students have the option to create a design that they have considered different materials, researched and developed a solution to fit the need of this item. Ergonomics, colours, strength and process selection must be discussed within the research displayed in the folio.</td>
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<td>• Skill development using basic hand and power tools (One –two more complex tools must be used in the design, as per the VELS requirements)</td>
<td>• Considerations of different materials and the limitations</td>
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### MERBEIN P-10 DESIGN, CREATIVITY TECHNOLOGY COURSE OUTLINE
#### TECHNOLOGY METALS (Ausvels based)

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