Course Description:

In Year 9, learning in Design & Technology focuses on further development of skills and knowledge in a range of technologies, such as wood, acrylic and metal. Problem solving and producing products using a range of skills allows students to engage in projects in a dynamic and individual way.

Technology Process

Students apply a technology process to create or modify products to meet human needs and requirements.

- **Investigating**: Students investigate issues, needs and opportunities.
- **Designing**: Students devise and generate ideas and prepare production proposals.
- **Producing**: Students produce solutions and manage production processes.
- **Evaluating**: Students evaluate intentions, plans and actions.

Materials

Students select and use materials that are appropriate to achieving solutions to technological challenges.

- **Nature**: Students understand that the properties of materials are considered when making selections to meet design, production and service requirements.
- **Techniques**: Students select and safely use equipment and techniques appropriate to both material and design requirements to achieve specified standards of accuracy and presentation.

Course Outline

<table>
<thead>
<tr>
<th>Week</th>
<th>Content</th>
</tr>
</thead>
</table>
| 1    | **Introduction, Rules, Safety**  
  - Class / workshop rules  
  - Discuss overarching school policies and procedures on OHS and use of tools and machinery.  
  - Safety, Rules and Procedures in detail. |
| 2    | **Safety (Task 1) and Project 1**  
  - Safety in the workshop  
  - Marking procedures |
| 3-4  | **Project 1 (continued)**  
  - Marking procedures  
  - Hand tool skills and practise |
| 5-6  | **Project 1 (continued) Task 2 - Evaluation**  
  - Basic static machine use i.e. cutting, sanding. |
• Carcase construction processes
• Product Procedures
• Evaluation skills.

Project 2 - Task 3 - Investigation
• Investigating design requirements
• Research skills

Project 2 (continued) – Task 4 - Devising
• Devising solutions
• Design skills

Project 2 (continued) – Task 5 & 6 – Production and evaluation
• Template making
• Project parts and carcase manufacture
• Production planning and evaluation.

Project 3 Task 7 - Production
• Lathe safety and use
• Devising of pedestal designs
• Base manufacture
• Pedestal production and evaluation.

Project 4
• Skills and knowledge of processes and techniques skills project

This course outline may be subject to change, any changes will be communicated to students

Assessment Outline

<table>
<thead>
<tr>
<th>Type of assessment</th>
<th>Due Date</th>
<th>Outcomes</th>
<th>Max Score</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety, Rules and Procedures</td>
<td>Week 4</td>
<td>Technology Process Materials</td>
<td>35</td>
<td>10%</td>
</tr>
<tr>
<td>Investigation</td>
<td>Week 8</td>
<td>Technology Process Materials</td>
<td>40</td>
<td>10%</td>
</tr>
<tr>
<td>Devising</td>
<td>Week 10</td>
<td>Technology Process Materials</td>
<td>10</td>
<td>10%</td>
</tr>
<tr>
<td>Producing</td>
<td>Week 15 and 19</td>
<td>Technology Process Materials</td>
<td>30,30</td>
<td>60%</td>
</tr>
<tr>
<td>Evaluating</td>
<td>Week 7 and 19</td>
<td>Technology Process</td>
<td>10,10</td>
<td>10%</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>100</td>
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</tbody>
</table>

The above weightings are intended to show the importance of each task. The allocation of a grade at the end of a semester is determined based on grade related descriptors issued by School Curriculum and Standards Authority.