

## Curriculum Overview – Year 9 Construction

Unit Title	Learning	How can parents best support?
<p>Half Term 1 - Health and Safety in the Construction Industry</p>	<p>Students will be required to complete the unit booklet work for the designated tasks. They will need to discuss safe working practices in the construction industry, identifying signs and symbols linked to the upcoming tasks.</p> <p>Students will be required to select and use the appropriate PPE during all practical activities throughout the skills audit. This will be logged by teacher and in the student's practical diary.</p> <p>Students will then be required to carry out a formal risk assessment of the workshop, taking into consideration the formula to reduce the risk ratings to 0.</p>	<p>Parents can engage their child in discussions around staying safe at home when carrying out household tasks. Discuss ways to identify hazards and how to avoid potential problems.</p>
<p>Half Term 2 - Producing Technical Drawings Through Sketch and CAD Methods</p>	<p>Students will be required to complete the unit booklet work for the given task, by completing a series of Isometric views of the skills joints. Each joint should be complete in full and exploded views.</p> <p>Once complete, the students will be required to complete the drawings using 2D CAD software. They should evaluate the 2 methods and explain which they feel is the best/most efficient. Students will be required to describe the tools used within the CAD software in an instruction format.</p>	<p>Parents can encourage their child to practice using the CAD software at home</p>

<p>Half Term 3 - Skills Joint Audit</p>	<p>Students will be required to complete 4 skills joints, each becoming more complex as they progress. The joints include:            Bridle Joint            Half Lap            Mortise and Tenon            Half Lap Dovetail            Each joint should be completed within tolerance and to a high standard.            Students will be required to select and use appropriate hand and power tools to complete the tasks. Using incorrect tool will result in loss of marks. A visual diary should be kept to inform the assessment decisions.</p>	<p>Parents can encourage their child to watch instructional videos that show the practical/contextual elements of construction eg. How it's made style clips.</p>
<p>Half Term 4 - Contextualising the Skills Audit</p>	<p>Having carried out the skills audit, students will be required to complete a series of practical projects (side table and foot stool) using all of the wood joints completed. They will make a footstool and side table, using the skills gained over the audit. The practical exercise will form the majority of the assessment decisions for term 1 &amp; 2.            A visual evidence should be recorded throughout the process</p>	<p>Parents can encourage their child to watch Mega Structures episodes on Youtube, and have conversations about the impacts on the surrounding environment.</p>

<p>Half Term 5 - Evaluating a Construction Project</p>	<p>Students will use their interpreted drawings to produce a scale model of a window frame. The students will be provided with a series of instructions to complete the window frame. The task will be carried out to measured tolerances and quality controlled against a full scale construction finish. A successful frame will include the following:</p> <ul style="list-style-type: none"> <li>Secure bridle joints</li> <li>Planed Window sill</li> <li>Mitred beading</li> <li>Undercoat and glossed finish</li> </ul>	<p>Parents can encourage their child to engage in small repair jobs around the house eg. Decorating, small joinery tasks and gardening activities.</p>
<p>Half Term 6 - Skills Stud Frame</p>	<p>Students will use their interpreted drawings to produce a scale model of a stud frame. The students will be provided with a series of instructions to complete the stud frame. The task will be carried out to measured tolerances and quality controlled against a full scale construction finish. A successful frame will include the following:</p> <ul style="list-style-type: none"> <li>Secure nailed frame</li> <li>Accurate boarding out</li> <li>Appropriate noggin positioning</li> <li>Square door frame</li> <li>But and Scribe skirting</li> <li>Mitred dado rail</li> </ul>	