# Design Technology Year 8

## Learning Intentions Summer Term 1          2024-2025

| | LESSON |
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| **WEEK 28** wc 21st April | **Practical lesson – CADCAM**<br>Demo the pewter casting hearth and CAD router machine.  Reinforce health and safety rules when using the machines.<br>Pupils to use both machines to produce a mould and cast a letter from pewter.<br>• Follow correct procedure<br>• Be aware of specific safety rules when using the machines<br>Be able to apply basic quality control checks after both processes are finished |
| **WEEK 29** wc 28th April | **Practical Lesson- Cutting tools and techniques.**<br>Teacher demo on the correct way to use cutting and shaping tools such as saws, drills and files.<br>• Correct techniques – how to begin a cut, sawing in a straight line, where to place hands<br>• Common mistakes – using the tool incorrectly, using the wrong tool for the job<br>• Correct methods of drilling – stepping up, work piece holding using hand vices and using correct technical terms.<br><br>Pupils to proceed with practical, show awareness of Health and Safety and follow the rules of the workshop. |
| **WEEK 30** wc 5th May | **Practical lesson –Cleaning the materials/ Adding a finish**<br>Pupils will clean up their materials using sandpaper, wire wool and metal polish. Discussion about finishes:<br>• Why are they used<br>• Different types for different materials<br>Pupils will be shown how to apply a clear polyurethane finish to seal in their material once it is completed<br>Pupils to proceed with practical, show awareness of Health and Safety and follow the rules of the workshop. |
| **WEEK 31** wc 12th May | **Practical – Final assembly**<br>Final assembly lesson for all aspects of the project to be completed.<br>Reminder about Quality Control – Modifications that may have occurred need to be noted and justified if they have deviated from the design brief. |
| **WEEK 32** wc 19th May | **Evaluation**<br>Review the project with the pupils. Class discussion with all the completed projects on view.<br>Good examples and why. What improvements could others have made?<br>All pupils to complete an evaluation work sheet to review their product and their own performance during the rotation. |