

Design Technology Year 9

Learning Intentions Summer Term 1

2024-2025

	LESSON
WEEK 28 wc 21 st April	Practical lesson – CAD/CAM Demo the acrylic line bender and CAD router machine. Reinforce health and safety rules when using the machines. Pupils to use both machines to produce an acrylic net with a tessellated pattern and then bend up the shape into a 3D object. <ul style="list-style-type: none">• Follow correct procedure• Be aware of specific safety rules when using the machines• Be able to apply basic quality control checks after both processes are finished
WEEK 29 wc 28 th April	Practical Lesson- Cutting tools and techniques. Teacher demo on the correct way to use cutting and shaping tools such as saws, drills, and files. <ul style="list-style-type: none">• Correct techniques – how to begin a cut, sawing in a straight line, where to place hands• Common mistakes – using the tool incorrectly, using the wrong tool for the job – Coping saws for plastic• Managing the risk of shattering by vice placement and use of speed.
WEEK 30 wc 5 th May	Practical lesson –Cleaning the materials / Adding a finish Pupils will clean up their materials using abrasive paper, wire wool and metal polish. Discussion about finishes: <ul style="list-style-type: none">• Why are they used• Different types for different materials Pupils will discuss why acrylics do not need a finish. What is meant by self-finishing?
WEEK 31 wc 12 th May	Practical – Final assembly Final assembly lesson for all aspects of the project to be completed. 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 19 th May	Evaluation Review the project with the pupils. Class discussion with all the completed projects on view. Good examples and why. What improvements could others have made? How to offer constructive feedback. All pupils to complete an evaluation work sheet to review their product and their own performance during the rotation. How can their own performance be improved?