Subject: DT	Time Period	Content		Assessment
Year	**Half-Term**	**Theory**	**Portfolio, Practical**	
I Year	**All change to term 1**	Timber based materials: • Sources and origins • Working with timbers • Commercial manufacturing Assessment on selection of HW questions from above. Unit 2 Energy, Materials, Systems and Devices used where possible.	• Project 1: Making a detailed pine storage unit incorporating fine woodworking joints	Self/peer/teacher assessment for Worksheets and HW sheets. SMH quiz results. Project work verbal feedback. Formal marking of projects with self-assessment taking place first then teacher assessment with prompt questions. LAG grade also from HW question assessment.
	2	Recap on Timber based materials: • Sources and origins • Working with timbers • Commercial manufacturing New and Emerging Technologies • Industry and enterprise • Sustainability and the environment • People, culture, and society • Production techniques and systems • Informing design decisions Unit 2 Energy, Materials, Systems and Devices used where possible.	• Finishing Project 1. • Project 2: Making a cabinet using more complicated joints and techniques, such as the addition of multiple sliding doors and applying a suitable finish. This is completed before the I year exam.	Self/peer/teacher assessment for Worksheets and HW sheets. SMH quiz results. Project work verbal feedback. Formal marking of projects with self-assessment taking place first then teacher assessment with prompt questions. Formal end of unit assessments.
	3	Recap New and Emerging Technologies • Industry and enterprise • Sustainability and the environment • People, culture, and society • Production techniques and systems • Informing design decisions Unit 2 Energy, Materials, Systems and Devices used where possible.	• Finishing Project 2: • Project 3: MP3 amplifier and housing unit.	Self/peer/teacher assessment for Worksheets and HW sheets. SMH quiz results. Project work verbal feedback. Formal marking of projects with self-assessment taking place first then teacher assessment with prompt questions.

	4	Mock exam theory: • Questions taken from a range of areas including mathematically based theory/design problems and then used for lessons.	• Finishing Project 3: MP3 amplifier and housing unit. • Skills based projects.	Self/peer/teacher assessment for Worksheets and HW sheets. Mock exam. SMH quiz results. Project work verbal feedback. Formal marking of projects with self-assessment taking place first then teacher assessment with prompt questions.
	5	SMH/Seneca tasks. Practical based approach making use of all time to push final processing and quality ready for NEA in next term. Skills projects with photos taken.	Practical based approach making use of all time to push final processing and quality ready for NEA in next term. Skills projects with photos taken.	Self/peer/teacher assessment for Worksheets and HW sheets. SMH quiz results. Project work verbal feedback. Formal marking of projects with self-assessment taking place first then teacher assessment with prompt questions.
	6	Through NEA material research, fabrication techniques and specification writing theory is recapped. Drawing techniques improved.	NEA Exam Board Release Material given out and started. Starting with Investigate section (Investigation of Needs and Research, then followed on with Specification).	Draft deadline for first section. NEA – Ongoing feedback
E Year	**1**	Through NEA material research, fabrication techniques and specification writing theory is recapped. Drawing techniques improved.	NEA Investigate section • Investigation of Needs and Research, then followed on with Specification).	NEA – Ongoing feedback
	2	Drawing both with traditional pencil and paper and CAD covered, used, and presented for clear communication. Annotation is construction-based concentrating on the communication for the reader. Mock preparation – Unit 2 Energy, Materials, Systems and Devices used.	NEA Design Section • Design Ideas, • Review of Ideas, • Development of design ideas into a chosen design. Make Section • Use of final design and lay plan to start cutting list. • Start of construction • Plan of Production	NEA – Ongoing feedback Mock preparation/feedback includes SMH quizzes and Seneca and exam paper tasks.

			• Photo log	
	3	Fabrication methods along with photo log giving opportunity for explaining stages of use.	NEA Make Section • Manufacture – selection of materials • Manufacture – skills and processes • Quality and accuracy • Plan of Production • Photo log	NEA – Ongoing feedback
	4	Fabrication methods along with photo log giving opportunity for explaining stages of use. LCA covers sustainability, carbon footprint and mass production techniques.	NEA Make Section • Manufacture – selection of materials • Manufacture – skills and processes • Quality and accuracy • Plan of Production • Photo log Evaluate Section • Formal evaluation against specification • LCA. NEA DEADLINE TWO WEEKS BEFORE EASTER	NEA – Ongoing feedback
	5	Malone's PIXL Inspired • Timbers credited work • CAD/CAM/ICT credited work.		NEA – Ongoing feedback. Sent off to board. Exam technique feedback. Peer assessment.
	6	SMH Resources – week-by-week style tasks set with voice over PowerPoints to aid learning.		External Exams
L6	**1**	Unit 1, Design Theory, Polymer Processing	Identifying and Investigations Design Possibilities. Producing a Design Brief and Specification. Workshop Skills	Unit 1. Worksheet and HW sheet assessment followed by LAG Assessment NEA – Ongoing feedback Peer assessment.

	2	Unit 2, Design Theory (Unit 12-15 elements)	Identifying and Investigations Design Possibilities. Producing a Design Brief and Specification.	Unit 2 Worksheet and HW sheet assessment followed by LAG Assessment NEA – Ongoing feedback Peer assessment.
	3	Unit 3, Design Theory Unit 12-15 elements) Unit 11 Mock Input	Development of Design Proposals Workshop Skills	Unit Worksheet and HW sheet assessment followed by LAG Assessment, Mocks NEA – Ongoing feedback
	4	Unit 4, Design Theory Unit 12-15 elements)	Development of Design Proposals Workshop Skills	Unit 4 Worksheet and HW sheet assessment followed by LAG Assessment NEA – Ongoing feedback Peer assessment.
	5	Unit 5, Design Theory Unit 12-15 elements)	Development of Design Proposals Development of Design Prototype	Unit Worksheet and HW sheet assessment followed by LAG Assessment NEA – Ongoing feedback Peer assessment.
	6	Unit 6, Design Theory Unit 12-15 elements) Mock Input	Development of Design Proposals Development of Design Prototype	Unit Worksheet and HW sheet assessment followed by LAG Assessment, Mocks NEA – Ongoing feedback
U6	**1**	Unit 7, Maths check-up	On-going modelling, with Development of Design Prototype	Unit 7 Worksheet and HW sheet assessment followed by LAG Assessment NEA – Ongoing feedback
	2	Unit 8, Maths check-up	On-going modelling, with Development of Design Prototype	Unit 8 Worksheet and HW sheet assessment followed by LAG Assessment NEA – Ongoing feedback

	3	Unit 9, Maths check-up	On-going modelling, with Development of Design Prototype	Unit 9 Worksheet and HW sheet assessment followed by LAG Assessment NEA – Ongoing feedback
	4	Unit 10, Unit 12-15 Recap Maths check-up Mock Input	Development of Design Prototype Analysing and Evaluating Draft hand-in and return.	Unit 10 Worksheet and HW sheet assessment followed by LAG Assessment Mocks Draft hand-in and return.
	5	Unit 11 Recap, Maths check-up	CW Hand in and associated CRB's.	Unit 11 Worksheet and HW sheet assessment followed by LAG Assessment. CW mark return. CW Hand in.
	6	External Exams		External Exams

A YEAR RMT

First Project 8 Week Plan - Wood Work Project

Second Project 2 Week Plan – Wood/Metal Work Project

Week	TITLE	CONTENT. TICKS	ASSESSMENT	HOMEWORK
1	Introduction to courses run, health and safety and start of project.	Previous examples of designs and how they can impact your work – marking. Pine lengths with marking out using the engineering drawings. Correct use of tools and accuracy – QC. Demos: Tri-square, wasting gap and Tenon saw. ☐ ☐ ☐	Marked previous examples of work. In practical sessions- Making. Level of accuracy and precision. Plenary – Q/A.	Initial Ideas – Due next lesson. Remember to fully annotate work.
2	Initial ideas review and practical.	Ideas out and marking each other's work, writing positive comments and an area for development. Pine lengths with marking out using the engineering drawings. Correct use of tools and accuracy – QC.	Peer assessment of work. Making and Evaluation. HW in for marking.	None set.

		Demos: Tri-square, wasting gap and Tenon saw, **band facer, band saw, rebate joint.**	Plenary – Q/A.	
3	HW review and developments explained. Practical.	SCAMPER introduced using previous examples and how developments move ideas on. Rebate joint marking out and cutting underway. Demos: Tri-square, wasting gap and Tenon saw, band facer, band saw, rebate joint.	Peer assessment of work. Making and Evaluation. Plenary – Q/A.	Development of ideas using SCAMPER. Due next lesson. Be creative and use the prompts.
4	SCAMPER review and practical.	Developments out and marking each other's work, writing positive comments and an area for development. Try a GCSE grade! Rebate joint marking out and cutting underway, leading to assembly. Glue stage and clamping. QC is the inside prepared? Orbital sander needed?	Peer assessment using criteria. Making and Evaluation. HW in for marking. Plenary – Q/A.	None set.
5	Planning. Practical.	HW: Using the Planning pages with the systems and control create a plan that someone else could use to make the product. Assembly with top and bottom of unit added. Demo: Correct marking out with labelling for QC.	Planning – correct logic used. Making and Evaluation. Plenary – Q/A.	Planning. Using the planning explanation try and create a plan that shows how you would make your project. Due next lesson.
6	Planning review and practical.	Plans out and marking each other's work, writing positive comments and an area for development. Try a GCSE grade!	Peer assessment using criteria. Making and Evaluation.	None set

		Assembly with top and bottom of unit added. Butterfly hinges used for top. Demo: How to add a hinge correctly. ☐	HW in for marking. Plenary – Q/A.	

What do I need to do next time?

Second Project 4 Week Plan – Wood/Metal Work Project (Extension if finished early)

7 Both Projects Run Side-By-Side	Evaluation method explained and practical.	Access FM – evaluation of work. Explain and justify your points for higher marks. Assembly with top and bottom of unit added. Butterfly hinges used for top. Finishing now taking place. Projects moved on by those who have finished so personalising their work. Wax finishing. Demo: Correct application of wax and safe use. ☐	Evaluation. Self-assess against GCSE criteria. Making and Evaluation. Plenary – Q/A	Access FM – evaluation of work. Explain and justify your points for higher marks. Due next lesson.
	Introduction to course, health and safety and start of project.	Run through the outline of the next 4 weeks. Today you will have 3 ideas, chose one, design it on cuttlefish and start to carve out the design. Theory of moulds and carving will be given to help explain the task. ☐ HW on White Pewter explained (helps theory for future – key terms).	In design Q/A. HW. Plenary – Q/A.	HW: White Pewter HW due next lesson.

8 **Both Projects Run Side-By-Side**	Possible last lesson of project, all to be finished ready for final assessment on designs and making.	Review of previous design grades and completion of practical for assessment when finished. Possible finishes: • Wax ☐ • Stamps ☐ • Stain. ☐ Each finish must be used in sequence to obtain a high quality finish.	Plenary-group discussion of improvements. HW and booklets in. Making and Evaluation.	None set All booklets in.
	Mood board review. White Pewter processing ready for cavity.	The method of using the 'Low Temperature' casting machine and set-up of speedy clamp ensuring QC with no leakage. Reinforce that the better the carving the better the final product. Filing and finishing covered through demos. HW on White Pewter explained.	Peer assessment using criteria. Making and Evaluation. HW in for marking. Plenary – Q/A.	None set.
2 Week plan for second rotation – Wood/Metal Work Project				
1	White Pewter HW. Practical.	HW run through and set: White Pewter Carving, casting and finishing to a **high quality, including:** • Emery cloth ☐ • Steel wool ☐ • Wet and dry paper. ☐	Plenary-group discussion of improvements. Making and Evaluation.	White Pewter. HW due next lesson.

2	Continuing practical to finish projects and assessment on designs and making.	HW run through and set: White Pewter Carving, casting and finishing to a **high quality.** Use of pillar drill/power drill for holes for chain and key ring. Demo: Safe set-up and use of pillar drill/power drill. ☐ ☐ Practical finished and taken home. Booklets in.	Plenary-group discussion of improvements. Peer assessment using criteria. HW and booklets in. Making and Evaluation.	None set. All booklets in.