

Year 8 SoW: Processes

PROJECT OVERVIEW

Pupils will have the opportunity to extend practical and theoretical knowledge of wood.



WK	CONTENT	OBJECTIVE
1	Use 2d design and the laser cutter to create a decorative panel	To recap 2d design and extend knowledge of the techniques
2	Recap H and S. Use traditional marking out tools such as metal rule, marking gauge and try square to create individual treasure chest designs	To recall and apply safe working practices in the workshop. To be able to use a range of marking out tools skilfully and understand their different purposes
3	Saw and plane the wood to shape. Sand to achieve a high quality finish	To develop practical woodworking skills and extend knowledge to a wide range of tools and processes
4	Use the fretsaw to create a themed stop / faux lock for the treasure chest	To extend skills and knowledge of the fretsaw
5	Demonstrate use of Forstner bits, further marking out techniques. Discuss finishes and apply to treasure chest	To develop practical wood-working skill
6	Explore environmental issues including sustainability and the 6rs's	To develop an understanding of environmental issues and how we can use the 6r's to inform our designing.
7	Mode and develop ideas for the tealight holder	To be able to use the iterative design process to develop ideas through modelling

FINAL PRODUCT

Softwood Treasure Chest

Tealight holder

ASSESSMENT

- Making
- Design Criteria
- Planning
- Evaluation

HOMEWORK

See home work sheet

LITERACY:

reading for information

Key words/technical terms—plane, fretsaw, marking gauge, try square, recycle, reduce, reuse, rethink, refuse, repair

NUMERACY:

Scale, contouring, lines of symmetry, measuring, temperature

DIRT /FEEDBACK

- Respond to practical feedback
- Engage with iterative design process
- Likes or dislikes about a piece of work
- Correct spellings
- Grammatical errors
- Respond to comments
- Set targets for improvement in the given focus area
- Compare your work with that of another pupil
- Emoticon your work
- RAG learning objectives
- Record focus area grade on Progress sheets

WIDER READING OR RESOURCES

BBC Bitesize

Doddle

Instructables

Technologystudent.com

www.aluminum.org

Extension worksheets

PLC: EVALUATION (Personal Learning Checklist)

1	Can you identify at least six 2d design tools?
	What are CAD and CAM?
	Can you explain what contouring is?
2	Can you name three tools for marking out wood using the correct terminology?
	What is a parallel line?
	How does grain impact your design?
3	Can you explain how to use a plane safely and skilfully?
	Can you describe how to use a fretsaw?
	What is a Forstner bit used for?
4	What is a fretsaw?
	What are the safety rules for using a fretsaw?
	What are the 6 r's?

PAC VALUES

Pride in your work

Respect for others

Work ethic