

Design and Technology - Scheme of Work Year 10 Storage Box

<u>Lesson /week</u>	<u>Lesson Objectives</u>	<u>Expected Student Outcomes</u>	<u>Teaching and Learning Strategies</u>	<u>Student Support Differentiation</u>	<u>Resources and Equipment</u>	<u>Health and Safety</u>	<u>Homework</u>
1	Introduce GCSE design folder layout Discuss project theme Write design situation Write description of the user Write design brief	Design situation and Design brief pages complete Complete User description	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets – Design Sheets 1-3 PPT presentation Sample product	General work shop safety -Non practical	None set
2	Discuss research Plan existing products research Outline Specification Demonstrate Lap Joint	Produce research plan	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets – Design Sheets 4-6 PPT presentation Sample joint	Self and others safe conduct carrying and using tools	Research – intended use and existing products
3	Demonstrate Dowel Joint Write specification Discuss initial designing of box top	Produce specification Produce 5 possible designs for box top	Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets – Design Sheet 7 PPT presentation Sample joint	General work shop safety -Non practical	None set
4	Demonstrate Comb Joint Complete designs for box top – evaluation Start marking out timber	Evaluate initial box top designs	Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets – Design Sheet 8 PPT presentation Sample joint	Self and others safe conduct carrying and using tools	Complete evaluation of designs
5	Demonstrate Dovetail Joint Complete marking out timber Begin cutting/filing timber	Write up basic notes on Timber and how each of the four types of joints are made	Open/closed questioning Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets – Design Sheet 9 PPT presentation Sample joint	Self and others safe conduct carrying and using tools	Complete notes on Joints

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6	Begin marking out and cutting first joints Demonstrate test fit and cleaning up of joints	At least one joint cut out and test fitted	Open/closed questioning Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets PPT presentation Sample joint	Self and others safe conduct carrying and using tools	None set
7	Continue marking and cutting joints Discuss use of modelling in design	At least one more joint cut and test fitted	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets PPT presentation Sample disassembled box	Self and others safe conduct carrying and using tools	Design Sheet 10 – use of modelling
8	Demonstrate marking out and cutting pieces for veneered top – use of templates Continue practical work	All four joints cut out and test fitted	Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets PPT presentation Sample veneers	Self and others safe conduct carrying and using tools	Design Sheet 11 – Final Solution
9	Demonstrate producing a Working Drawing Demonstrate writing Cutting List	Produce practice working drawing Begin Cutting List	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets PPT presentation	General work shop safety -Non practical	Design Sheet 12 & 13 – Working Drawing & Cutting List
10	Demonstrate how to glue boxes together – why is the top not separate? Continue practical work	Boxes assembled Veneers for top being prepared	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets PPT presentation Sample surface finishes	Self and others safe conduct carrying and using tools	None set

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11	Explain writing a Plan of Making including use of Gantt Charts	Produce a Plan of Making	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets – Design Sheet 14 PPT presentation	General work shop safety -Non practical	Gantt Chart
12	Demonstrate choosing and applying surface finishes Continue practical work	Clean up boxes after gluing and being fitting veneers	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets PPT presentation	Self and others safe conduct carrying and using tools	Design Sheet 15 – Equipment, tools and processes
13	Explain recording the progress of practical work	Complete a record of making on Design Sheet 16	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets – Design Sheet 16 PPT presentation	General work shop safety -Non practical	None set
14	Practical Work	Finish fitting veneers, ready to cut off box tops	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets PPT presentation	Self and others safe conduct carrying and using tools	Design Folders
15	Demonstrate cutting off box tops and fitting top supports	Make top supports and fit	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets PPT presentation	Self and others safe conduct carrying and using tools	None set

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16	Recap applying surface finish	Finish top supports Apply surface finish	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets PPT presentation	Self and others safe conduct carrying and using tools	Design Sheet 17 – images of final product
17	Explain the importance of testing in design Explain the importance of evaluation in design	Carry out testing of final product	Open/closed questioning Group discussion Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets – Design Sheet 19 PPT presentation	Self and others safe conduct carrying and using tools	Design Sheet 18 - evaluation
18	Submit a complete project	Complete folder and practical and submit	Individual work	Use of individual student booklets Students choosing their own design theme Individual assistance as required	Student booklets	Self and others safe conduct carrying and using tools	None set