




Unit = Year 8 Jointed Wooden Box	Road Map				
	Assessment Grades				
Themes	Learning Goals/Outcomes/Content				
What will my design specification be?	L1 Design Brief 1 & Specification 1 Students understand how to write a design brief using a task context. Students understand how to use the design brief and task to write a specification.				
How could existing products influence my own designs?	L2 Product Analysis Students understand how to analyse products to inform their designing. Students extract information to use within their design work.				
How do you mark out and cut wood using hand tools?	L3 Test Joints Students understand how to mark out using various woodworking tools Students able to cut joint using a variety of wood saw and the pillar drill.				
How do you adapt woodworking skills according to the task?	L4 Test Joints Students are able to adapt previously learnt woodworking skills Students are able to make an alternative wood joint.				
What is orthographic drawing?	L5 Orthographic 1 Students understand what orthographic drawing is. Students understand how to layout in 3 rd angle projection and add dimension lines.				
How do I draw my box in orthographic?	L6 Orthographic 2 Students are able to draw their product in 3 rd angle projection. Students are able to dimension accurately.				
How do you mark out to a high level of tolerance?	L7 Box Parts Students able to mark out box parts using previously learnt marking out skills. Students able to use a tenon saw and bench hook to cut component parts.				
How do carpenters cut box joints?	L8 Box joints 1 Students can apply marking out skills and tools to a four cornered box. Students can select and use correct tools to cut joints in wood.				
How do you use templates to aid making?	L9 Design Ideas Understand the function of a template Be able to work within a set of design constraints				
How do you render a realistic wooden box?	L10 Rendering skills 2 Understand how to use oblique drawing skills Be able to add texture when rendering				
How do you construct joints for a box?	L11 Box joints 2 Students can apply marking out skills and tools to a four cornered box. Students can select and use correct tools to cut joints in wood.				
How does PVA work and how do you use it?	L12 Assembly Students know how to use PVA to assemble projects Students know purpose of and how to fit pins into wood.				

What are the different categories of woods?	L13 Woods Theory Understand the different wood categories. Know the main types of woods for each category.			
How do you prepare timber to be finished?	L14 Finishing Students know how to mix and apply filler to improve finish. Students understand how to sand and finish filler to create high quality appearance.			
How do you apply a finish to timber?	L15 Finishing Students understand the main types of finish that can be applied to wood. Students understand how to apply these finishes.			
How do you work with aluminium?	L16 Brackets Students able to mark out onto aluminium. Students able to use hacksaws and files to cut and shape aluminium.			
How do you finish aluminium?	L17 Brackets Students able to use hacksaws and files to cut and shape aluminium. Students able to form and fix aluminium to box.			
How could I further improve my product?	L18 Evaluation & modifications Students understand how to reflect using their specifications. Students are able to suggest further improvements.			

Links:

Develop research and designing skills to develop a functioning product
 Develop a range of workshop woodworking skills
 Have an understanding of working drawings
 Know different types of woods