Subject: Design and Technology Pencil Box Project

Year group: 8

	ndependent/Home Assessment earning	Resources	Retrieval practice
Lesson 1	Are students able to answer these questions: What is the name given to natural manufactured wood products? Why is timber recyclable, renewable and reusable? What are the two categories of natural timber? What type of trees do hardwood come from? Why are hardwood generally more expensive than Softwood? Can you name 4 different types of hardwood? What are the main differences between hardwoods and softwoods? Name two properties of Ash and one use. Name two properties of Beach and one use. Name two properties of Oak and one use. Name two properties of Balsa and one use. What trees do softwood s comfrom? Why are softwoods cheaper than hardwood? Name a disadvantage of a softwood over a hardwood Why are softwoods more commonly used in the construction industry? Name two properties of Spruce and one use and one disadvantage. Name two properties of Spruce and one use and one disadvantage. Name two properties of Spruce and one use and one disadvantage. Name two properties of Spruce and one use and one disadvantage.	dKu9kN4Ofnh9YBys5oYAoBJ YMmb4l397NPFw?e=tuGVNY	

	Lesson 2 Research	Research linked to user needs and wants.	Know why we need to conduct analysis and research to be able to develop appropriate products.		Are Students able to answer these questions:	Lesson 2 PowerPoint: https://eggbuckland.sharepo	
			Know the differences between primary and secondary research. Be able to carry out Primary research		Why do designers need to carry out research and analysis of existing products to help them design new products?	int.com/:f:/g/Technology/Ess 1s2ypL- dKu9kN4Ofnh9YBys5oYAoBJ YMmb4l397NPFw?e=tuGVNY	
			Be able to use ACCSESS FM to carry out a product analysis.		What is the difference between primary and secondary research?		
					Can you define Aesthetics? Can you define Function?		
11/1/21	Lessons 3/4 Making	Select from and use specialist tools, techniques, processes, equipment and machinery precisely,	Understand how knowing a materials property can help you when working with it. Know the name of the tools used to make the joints in wood. Know how to use the tools safely Understand the importance of measuring accurately.	Volume of a Cylinder and cuboid worksheet. This is set as an assignment in Teams but you can also download the worksheet here:	Quiz on names of tools and processes throughout making including how to use them safely. Verbal feedback on techniques.	Lesson 3,4,5,6 PowerPoint: https://eggbuckland.sharepoint.com/:f:/g/Technology/Ess1s2ypL-dKu9kN4Ofnh9YBys5oYAoBJYMmb4l397NPFw?e=tuGVNY	
			Be able to follow a working drawing and then use a trisquare, Steel Rule to mark out the correct lines for the finger joint. Using a Tenon Saw, Bench Hook and Bench vice correctly cut out a finger joint accurately.	https://eggbuckland .sharepoint.com/:w: /g/Technology/ESZD cbZTjNRDpQJJgGEN UXwBhWluewoM- O- gbnQnUPknwA?e=J VE4vy Upload finished			
	- 4-			worksheet in TEAMS.			
18/1/21	Lessons 5/6 Making	Select from and use specialist tools, techniques, processes, equipment and machinery precisely,	Understand how knowing a materials property can help you when working with it. Know the name of the tools used to make the joints in wood. Know how to use the tools safely Understand the importance of measuring accurately. Be able to follow a working drawing and then use a trisquare, Steel Rule to mark out the correct lines for the finger joint.		Upload picture of pencil box at this stage. Give class feedback.	Lesson 3,4,5,6 PowerPoint: https://eggbuckland.sharepoint.com/:f:/g/Technology/Ess 1s2ypL- dKu9kN4Ofnh9YBys5oYAoBJ YMmb4l397NPFw?e=tuGVNY	
			Using a Tenon Saw, Bench Hook and Bench vice correctly cut out a finger joint accurately.				
25/1/21	Lesson 7 Specification		Understand why we use an iterative design process. Know the main parts of the iterative design process.	Produce 3 Flash cards to remember the knowledge you need to know about	What is iterative design and why do designer use it to develop new products?	Lesson 7 PowerPoint: https://eggbuckland.sharepoint.com/:f:/g/Technology/Ess	
			Understand what a specification is and how we can use it in a iterative design process.	timber. One flash card about		<u>1s2ypL-</u>	

	Lesson 8 Initial Ideas	Know what user centred design (USD) is and how we use it to help us design things that ensure that users needs and wants are considered. Using the analysis (Users needs and wants) and the specification create imaginative design ideas. Annotate your drawing using ACSESS FM as a guide. Your drawing should clearly show how you have considered the user and the specification. Know how to develop your design by changing or combining different options.	Softwood one about Hardwoods and one about manmade boards. There is information in your Knowledge organiser that will help. To see how to make a proper Flash Card click here: https://www.bbc.co.uk/bitesize/articles/z6pv3k7 Upload your finished flash cards to assignments in TEAMS	Why do we use a specification throughout the design process? What us USD and why is it important for designers to use it to be able to make better products? Initial ideas reflect the design brief and specification. Students show that they have annotated their drawings with key points from the specification and their research.	dKu9kN4Ofnh9YBys5oYAoBJ YMmb4l397NPFw?e=tuGVNY Lesson 8 PowerPoint: https://eggbuckland.sharepoint.com/:f:/g/Technology/Ess1s2ypLdKu9kN4Ofnh9YBys5oYAoBJYMmb4l397NPFw?e=tuGVNY	
			TEAMS			
1/2/21	Lesson 9/10 Making	Know what a good pencil box looks like so you are able to evaluate your design as you make it.		Quiz on names of tools and processes throughout making including how to use them	Lesson 9, 10, 11, 12 PowerPoint:	
		Know how to use templates to create accurate shapes.		safely.	https://eggbuckland.sharepo int.com/:f:/g/Technology/Ess	
		Know how to use a scroll saw (if available) to safely cut out		Verbal feedback on techniques	<u>1s2ypL-</u>	
		the shapes for your design.			dKu9kN4Ofnh9YBys5oYAoBJ YMmb4l397NPFw?e=tuGVNY	
		Know how to apply appropriate colour to your shapes and pencil box to realise your design ideas.				
8/2/21	Lesson 11/12	Know what a good pencil box looks like so you are able to		Quiz on names of tools and	Lesson 9,10,11,12	
	Making	evaluate your design as you make it.		processes throughout making including how to use them	PowerPoint	
		Know how to use templates to create accurate shapes.		safely.	https://eggbuckland.sharepo int.com/:f:/g/Technology/Ess	
		Know how to use a scroll saw (if available) to safely cut out		Verbal feedback on techniques	1s2ypL-	
		the shapes for your design.		·	dKu9kN4Ofnh9YBys5oYAoBJ YMmb4l397NPFw?e=tuGVNY	
		Know how to apply appropriate colour to your shapes and pencil box to realise your design ideas.				
Extra If we	Lesson 13	Know how to use your analysing skills to evaluate what you		Upload picture of final product.	Lesson 12 PowerPoint	
have time	Evaluation	have done		Pass on class feedback to next teacher.	https://eggbuckland.sharepo	
	Lesson 14	Know how to use the ACCSESS FM tool to help with analysing			int.com/:f:/g/Technology/Ess	
	Assessment	and evaluating		Written Assessment.	1s2ypL- dKu9kN4Ofnh9YBys5oYAoBJ YMmb4l397NPFw?e=tuGVNY	
					Assessment	
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