Home-School Learning Collaboration – D & T (Product design)



Topics in this cycle:		Taught:	Year Group:		
1.	Origin, uses of wood & plastic. 2. Primary and secondary research	Summer 1	·		
3. 5.	Design and make a Jigsaw puzzle and a coat hook. 4. Production plan Product evaluation	10 weeks	7		
<u> </u>	Key knowledge/concepts to be learnt ('Tel	Websites/blogs/YouTube links and further			
	tto, tillomonge, college, to be tourn (ve.	reading to deepen and consolidate learning			
			reading to despot and consolidate fourthing		
0	What are the different types of wood and plastic	www.technologystudent.com			
	Identify what is deforestation and its effects.				
			www.bitesize.co.uk		
0	What is a net: the functions of a package and sat				
	for a package?				
0	o Identify, spell and define Design and Technology specialist key terms e.g.		Scroll saw use		
	ACCESS-FMM, Thermoplastic, Acrylic etc		https://youtu.be/-nEACcG-ZtQ		
			drill use		
0	•	ook using Access I Mim	https://youtu.be/fGbnim4GcAE		
	keywords?				
	Analyse existing products to find out more about their appearance, materials, size etc.		Strip heater use		
0	How to draw ideas and develop them in 2D/3D.		https://youtu.be/c63KUw-xQEY		
	Know how to add colour and clear annotation of mate				
	be used.	·			
0	How to create a step-by-step plan for making a p	product Knowing how to work			
	with wood and deform plastic.	read. Knowing now to work			
	•				
	Use the correct tools and equipment with skill to mal	ke a jigsaw puzzle, package, and			
	coat hook.				
0	Carryout observation to identify possible risk and	hazards.			
0	Use (SWOM) analysis to identify strengths, weak	nesses, client opinion and			
	suggest modifications or a novelty product.				
	suggest mountications of a noverty product.				

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Key vocabulary and	definitions to be learnt	What will the assessment look like?		
Investigate/research	Carry out research or study into, study of materials and sources in order to establish facts and reach new conclusions.	Project Booklet: Jigsaw puzzle and Coat Hook Assessed on investigation, design, make and		
Design	A plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.	evaluate. End of Unit test: 40 minutes • Multiple choice • Short answer questions		
Manufacture	To build or make			
Evaluate	To evaluate is defined as to judge the value or worth of someone or something.			
Recycling	It means to break down an item and to make something new from the materials.	Extended writing/design task		
Aesthetics	How well a product appeals to the sense as it relates to (colour, texture & form/geometry)	Family Learning Opportunities		
Consumer	Who uses the product.			
Function	The use or purpose of a product	your house. Kitchenware/utensils https://youtu.be/nv2Biwv86vg Animals		
Environment	The impact will the product have on the natural environment			
Design Specification	A list of criteria the product must meet to be successful			
Net	It is a flat two-dimensional shape, which contains score lines and when is folded and glued together forms a three dimensional shape.			
Deforestation	the action of clearing a wide area of trees			
Thermoplastic	Is a plastic that gets soft when heated and rehardening on cooling without appreciable change of properties.			
Acrylic	Acrylic plastic is a strong, clear polymer used in a host of industries including, but not limited to automobiles, lighting fixtures and optical applications.			
Soldering	https://youtu.be/Q_gejiVECIE	https://youtu.be/O4cK9G4q0mE Visit the zoo, Ikea, Design Museum or galleries.		
Wasting process	One that produces waste or unusable material either by cutting bits out or cutting bits off. Name the most common wasting processes Drilling Sawing Filing Sanding Planing Chiseling.			

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