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



	in this cycle:	Taught:	Year Group:
1. 3	Origin, uses of wood & plastic. 2. Primary and secondary research Design and make a Jigsaw puzzle and a coat hook. 4. Production plan	•	•
5. 5.	Product evaluation	Autumn 9 weeks	7
	Key knowledge/concepts to be learnt ('Tel	l me about')	Websites/blogs/YouTube links and further
			reading to deepen and consolidate learning
0	What are the different types of wood and plastic	s their origin and uses?	www.technologystudent.com
U	Identify what is deforestation and its effects.		www.bitesize.co.uk
0	Vhat is a net: the functions of a package and safety signs and symbols suitable		
	for a package?		
0	Identify, spell and define Design and Technology s	specialist key terms e.g.	Scroll saw use
	ACCESS-FMM, Thermoplastic, Acrylic etc		https://youtu.be/-nEACcG-ZtQ
0	How can I conduct a product analysis of a coat hook using ACCESS FMM		drill use
	keywords?		https://youtu.be/fGbnim4GcAE
	Analyse existing products to find out more about their ap	pearance, 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.	rials and methods/ processes to	
0	How to create a step-by-step plan for making a p	roduct Knowing how to work	
0	with wood and deform plastic.	odder. Knowing now to work	
	Use the correct tools and equipment with skill to mal coat hook.	ke a jigsaw puzzle, package, and	
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.		

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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
Manufacture	To build or make To evaluate is defined as to judge the value or worth of someone or something.	 Multiple choice Short answer questions Extended writing/design task
Evaluate		
Recycling	It means to break down an item and to make something new from the materials.	
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.	Make a coat hook model from corrugated card
Function	The use or purpose of a product	
Environment	A list of criteria the product must meet to be successful Play with	or cereal box.
Design Specification		 Play with your child's jigsaw puzzle. Practice drawing/sketching in 2D & 3D
Net	It is a flat two-dimensional shape, which contains score lines and when is folded and glued together forms a three dimensional shape.	(Perspective) animals, utensils, or furniture in your house.
Deforestation	the action of clearing a wide area of trees	, Kitchenware/utensils
Thermoplastic	Is a plastic that gets soft when heated and rehardening on cooling without appreciable change of properties.	<u>https://youtu.be/nv2Biwv86vg</u> Animals
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.	but Furniture <u>https://youtu.be/O4cK9G4q0mE</u> Visit the zoo, Ikea, Design Museum or galleries.
Soldering	https://youtu.be/Q_gejiVECIE	
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.	

