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



3. Designing	ile: history. 2. Secondary research – designer Philippe Starck using creative techniques & CAD and make a Paris 2024 Olympic medal sting 5. Product evaluation	Taught: SPRING 2 10 weeks	Year Group:
	Key knowledge/concepts to be learnt ('Tell me abo	Websites/blogs/YouTube links and further reading to deepen and consolidate learning	
package how to Philippe How to How to How to How to orthogramedal. How to	tory about the Olympic Games and different materials used es. conduct secondary research task analysis Starck a 21st century designer movement (Memphis, Pop ar conduct a product analysis of existing products using ACCES write a detailed design specification for my product draw four (4) design ideas for a creative Olympic medal in 2 use CAD (2d design V3) to develop and create presentational aphic/engineering drawings create a mould via laser cutting or /and mould so as to die confinish a medal and create a package or small-scale storage carry out an effective product evaluation	www.technologystudent.com www.bitesize.co.uk How to pewter casting? https://youtu.be/vcxt9PlgMec How to use a polisher? https://youtu.be/WrxXBmFY8Bs Brazing and Brazing hearth https://youtu.be/Dr7PHyyUQHk Techsoft design V2 (CAD) basics https://youtu.be/LO9CPpsoqHQ How the Bafta Award is made? https://youtu.be/JqJBmg1k_zw	

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Key vocabulary and	d 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: Paris 2024 Medal 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.		
Manufacture	To build or make.	End of Unit test: 35 minutesMultiple choice		
Evaluate	To evaluate is defined as to judge the value or worth of someone or something.	Short answer questions		
Reuse	Is the action or practice of using an item, whether for its original purpose (conventional reuse) or to fulfil a different function (creative reuse or repurposing).	Designing 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.	Make an Olympic medal model from corrugated		
Function	The use or purpose of a product.	card or cereal box.		
Environment	The impact will the product have on the natural environment.	Use play dough to create different shapes your		
Design Specification	A list of criteria the product must meet to be successful	medal could be.		
Pewter	Pewter is an attractive metal which has been used for the production of household and other items in Britain since Roman times. It is an alloy consisting mostly of tin which has been mixed with small amounts of other metals such as copper, lead or antimony to harden it and make it more durable.	Practice drawing/sketching in 2D & 3D (medal ideas or pendants).		
Die Casting	Die casting is a metal casting process that involves feeding molten nonferrous alloys into dies under high pressure and at high speed to rapidly create moulded products.	Research Philippe Starck or Charles Rennie		
Thermoplastic	Is a plastic that gets soft when heated and rehardening on cooling without appreciable change of properties.	McKintosh Visit these places Paris physically or virtually		
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.			
Brazing hearth	Brazing Hearths are usually at bench height and provide a convenient, heat proof and shielded location for Hard Soldering and Annealing. They are used in combination with a Blow Torch fuelled by natural gas, and for which they may have a built-in air compressor, or a Gas Torch fuelled by Liquefied Petroleum Gas (LPG)	– 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 Planning Chiselling.			
Mould	A hollow container used to give shape to <u>molten</u> or hot liquid material when it <u>cools</u> and <u>hardens</u> "the smith would pour the molten metal into the shaped mould.			

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