



Subject		Year		Term	
Product Design		12		1	
Topic					
Lighting up the room and Theory work					
Content (Intent)					
Prior Learning (Topic)		GCSE D&T			
<p>Students will start with a skill boost and make a storage/jewellery box for the first 2 weeks. They will then move on to complete a mock NEA based upon a lighting project where they will identify a room they wish to illuminate and then complete the design process in order to create an appropriate product for their market. Secondly, they will partake in Theory lessons four times a fortnight to build up skills and knowledge for their final exams.</p>					
Future Learning (Topic)		Mock NEA and Theory work			
What Knowledge and Skills will be taught (Implementation)			How will your understanding be assessed & recorded (Impact)		
<p><b>Preparation for the NEA.</b> A skills based design and make project will take place over terms one and two to provide students with the skills needed to complete the individual NEA in Y13. This project will cover a range of materials and processes outlined in the specification along with elements of CAD and sketching. The project will also be used to deliver or reinforce elements of the theoretical knowledge that may be examined in Paper 1 and Paper 2.</p> <p>By the end of this term pupils will have completed the following sections</p> <ul style="list-style-type: none"> <li>Client and Problem identified</li> <li>Research conducted</li> <li>Specification and Brief written</li> <li>Initial ideas complete</li> </ul> <p>Students will also cover all theory work for Paper 1.</p> <p>Paper 2 – Designing and making principles</p>			<p>The project will be assessed in term 2 of Year 12 with generalised feedback being given after each deadline. No marks will be issued until the final mark is given. This is under JCQ guidelines. The pupils will have a copy of the assessment criteria and can self and peer assess throughout.</p> <p>Continuous assessment of sample exam questions End of Unit Tests Unit 11-15</p> <p>Paper 2 exam at the end of term.</p>		
How can parents help at home?					
<p>Pupils will be expected to complete one hour of homework for each lesson of work. They will need to conduct a lot of primary research and may need to visit shops or locations in order to gather information. Pupils will also have to identify a client that they can use to help focus their project.</p>					
Helpful further reading/discussion (including Reading and Vocabulary Lists)					
<p><b>Reading</b></p> <p>AQA AS/A Level Design and Technology Product Design (Hodder) ISBN: 978-1-5104-1408-2</p> <p>21<sup>st</sup> Century Lighting Design – Alyn Griffiths ISBN: 1472503139</p>		<p><b>Vocabulary Lists</b></p> <p>Mechanical Properties Torsional Strength Hardness Toughness</p>		<p>Ductility Physical Properties Thermal expansion Synthetic Fusibility</p>	