



Subject		Year	Term
Product Design		12	2
Topic			
Lighting up the room and Theory work			
Content (Intent)			
Prior Learning (Topic)		Mock NEA and theory work	
Students will continue with 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.			
Future Learning (Topic)		Final NEA	
What Knowledge and Skills will be taught (Implementation)		How will your understanding be assessed & recorded (Impact)	
<p>Students are following a two year linear A-level.</p> <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. By the end of this term pupils will have completed the following sections</p> <p>Development of optimum solution through modelling and CAD            Practical outcome            Summative evaluation</p> <p>Exam preparation/theory</p> <p>Materials revision for Paper 1 – Technical Principles            Material testing, Performance characteristics of card, paper, synthetic plastics, biodegradable plastics, woods and metals</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>Mock Exam – Paper 1&amp;2            Continuous assessment of sample exam questions            End of Unit Test 1-10</p>	
How can parents help at home?			
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.			
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            Design Weekly            1000 Chairs (Charlotte and Peter Fiell) ISBN 383656369x            Dieter Rams: Ten Principles for Good Design ISBN 3791383663</p>		<p><b>Vocabulary Lists</b></p> <p>Just in time            Computer Numerically Controlled            Lean Manufacturing            Product Life cycle</p>	
		<p>Critical path analysis            Patent            Copyright            Icon</p>	