Bishop Heber High School

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)
Students are following a two-year linear A-level. **Preparation for the NEA**. 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 Development of optimum solution through modelling and CAD Practical outcome Summative evaluation Exam preparation/theory Paper 2 – Designing and making principles	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. Mock Exam – AS level paper Continuous assessment of sample exam questions

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)

Reading

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

Vocabulary Lists

Just In Time
Computer Numerically Controlled
Lean Manufacturing
Product Life cycle
Critical Path Analysis
Patent
Copyright
Icon