



A Level Design & Technology

Product Design 7552

Curriculum and Assessment Overview

The content is split into practical skills units and theory
Skills box – Teacher A Developing skills in using a range of hand tools and machinery, while applying quality control checks to create a product
Commercial product – Teacher B Students develop on previous skills of using iterative design to design and manufacture a high-end small product.
Inclusive Design – Teacher A and B Students use primary and secondary research to design a product which is inclusive for elderly users and sufferers of arthritis
NEA – Teacher A and B Students applying the above skills to create a large design and make portfolio. This is based on a client and situation of their choice
Theory content Taught once a week by each member of staff for 1 hour

Non - Exam Assessment (NEA)
What is assessed Practical application of technical principles, designing and making principles
How it's assessed <ul style="list-style-type: none">• Substantial design and make project• 100 marks• 50% of A-level
Evidence Written or digital design portfolio and photographic evidence of final product

Paper 1
What is assessed Technical principles
How it's assessed <ul style="list-style-type: none">• Written exam: 2 hours and 30 minutes• 120 marks• 30% of A-level
Questions Mixture of short answers and extended responses

Paper 2
What is assessed Designing and making principles
How it's assessed <ul style="list-style-type: none">• Written exam: 1 hour and 30 minutes• 80 marks• 20% of A level
Questions Mixture of short answers and extended responses
Section A <ul style="list-style-type: none">• Product Analysis: 30 Marks• Up to 6 short answer questions based on visual stimulus of products
Section B <ul style="list-style-type: none">• Commercial manufacturing: 50 marks• Mixture of short answers and extended responses



Year 12 (AS)

Teacher A	Teacher B
Term 1	
3.1.1 Materials and their applications	3.1.14 Design communication
3.1.2 Performance characteristics of materials	
3.1.3 Enhancement of materials	3.2.1 Design methods and processes
Forming, redistribution and addition processes	3.2.2 Design theory
Term 2	
3.1.5 The use of finishes	3.2.3 How technology and cultural changes can impact the work of the designer
3.1.6 Modern industrial and commercial practice	3.2.3 How technology and cultural changes can impact the work of the designer
3.1.7 Digital design and manufacture	
3.1.8 The requirements of product design and development	
Term 3	
3.1.9 Health and safety	3.2.4 The use of the design process
3.1.10 Protecting designs and intellectual property	
3.1.11 Design for manufacturing, maintenance, repair and disposal	
3.1.12 Feasibility studies	

Year 13 (A2)

Teacher A	Teacher B
Term 1	
3.1.14 Design communication	3.2.5-3.2.10 Critical analysis and evaluation Selecting tools, equipment and processes Accuracy in design and manufacture Design for manufacture and project management
3.2.1 Design methods and processes	
Term 2	
Exam questions and revision	Exam questions and revision
Term 3	
Exam questions and revision	Exam questions and revision