

Product Design A Level – Curriculum Journey



BEECHEN CLIFF



Post
18
Choices

Consider a degree in: -

Product Design
Structural Engineering
Mechanical Engineering
Electrical Engineering
Aeronautical Engineering
Architecture
Interior Design

Consider a career: -

Product Design
Various Engineering
Industrial Design
Architecture
Interior Design
Advanced/Higher & Degree Apprenticeships

Paper 1
Technical
Principles

Paper 2
Design & Making
Principles

Revision

Term 5 Theory

Feasibility studies
Enterprise and marketing in
the development of products
Modern manufacturing
systems

NEA

Analysing & Evaluating

NEA

Development of Design Prototypes

NEA
Final Hand In

Term 4 Theory

Performance characteristics of
materials/Polymers/Elastomers
Forming, redistribution and addition processes
The use of finishes
Digital design and manufacture
The requirements for product design and
development
Protecting designs and intellectual property

Term 3 Theory

National and
international standards in
product design
Performance
characteristics of materials

NEA

Design Brief & Specification

Year
13

Term 1 Theory

Performance characteristics of
materials/Papers & Board
The use of finishes
Modern and industrial
commercial practice
Health and safety

Term 2 Theory

Design Methods & Processes
How technology and cultural changes can
impact on the work of designers
Responsible design
Design Theory
Design for manufacturing, maintenance,
repair and disposal

Term 6 Theory

Performance characteristics
of materials/Papers & Board
The use of finishes
Modern and industrial
commercial practice
Health and safety

NEA

Investigating
the context

NEA
Development of Design Proposals

Term 5 Theory

The use of finishes
Modern and industrial
commercial practice
Digital design and manufacture
Design for manufacturing,
maintenance, repair

NEA Practise:
Laminated Product Module

Term 4 Theory

Design processes
Materials and their applications
Modern and industrial commercial practice
Introduction to NEA

Term 3 Theory

Selecting appropriate tools, equipment and
processes
Design communication
Digital design and manufacture
Design processes
Accuracy in design and manufacture

Term 2 Theory

Materials and
Application/Timbers
Performance
characteristics
Forming, redistribution and
addition processes.

NEA Practise:
Sustainable Shade Module



Studying Design & Technology

There are 4 main areas of knowledge and understanding that support the progress of every student when studying Design & Technology. These are more commonly known as the Golden Threads.

Use the
Golden
Threads to
progress
through the
D&T
curriculum

Designing
D

Making
M

Evaluating
E

Analysing and Evaluating
K
Technical Knowledge

Golden Threads in D&T

Year
12

Term 1 Theory

Materials and
Application/Polymers
Design History & Movements
Performance characteristics
Forming, redistribution and
addition processes.

NEA Practise:
Designer Influence Module

