

KS4 & KS5 Curriculum Journey

Product Design



Using innovation to creatively solve real life problems

13

**Component 2:
Independent Design and
Make Project**

Non-examined
assessment

50% of the qualification

Next Steps:

Higher Education in Product Design, Industrial Design, Architecture Engineering or CAD

Apprenticeships in engineering

Jobs in Design and Manufacturing

Skills for Life

Problem solving
Applied Maths
Practical skills
Analytical skills
Time Management
Creativity

Skills and Knowledge Building

- Material properties and characteristics
- Processes and specialist tools
- Digital technologies
- Product development
- Safe working practices
- Features of the manufacturing industry
- Designing for maintenance
- Information Handling

Equipping students with design skills for the future

**Component 1:
Principles of Design
and Technology**

Written examination: 2
hours 30 minutes

50% of the qualification

12



Next Steps

A level Product Design
FE College
Apprenticeship

Skills for Life

Problem solving
Applied Maths
Practical skills
Analytical skills
Time Management
Creativity

Skills and Knowledge Building

- New and emerging technologies
- Energy generation and storage
- Developments in new materials
- Systems approach to design
- Mechanical devices
- Materials and properties
- Forces and stresses
- Ecological footprint
- Sources and origins
- Scales of Production
- Design Strategies

Applying knowledge and understanding in practical contexts

11

Component 2: NEA

30-35 hours
100 Marks
50% of qualification

**Component 1: Core,
Technical and specialist
design principles**

Paper 1 2hours
100 Marks
50% of qualification

10

Preparing students to participate in a technological world

