



KS4 & KS5 Curriculum Journey

Product Design



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

GCSE

Next Steps

A level Product
Design
FE College
Apprenticeship

Skills for Life

Problem solving
Applied Maths
Practical skills
Analytical skills
Time
Management
Creativity

Using innovation to creatively solve real life problems

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Component 2: Independent Design and Make Project

Non-examined
assessment

50% of the qualification

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

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A Level

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

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Component 2: NEA

30-35 hours
100 Marks
50% of qualification

Applying knowledge and understanding in practical contexts

Component 1: Core, Technical and specialist design principles

Paper 1 2hours
100 Marks
50% of qualification

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Preparing students to participate in a technological world

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