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FORM

Subject Information Sheet



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Advanced Level

Engineering

What is the A-Level Engineering?

This creative and thought-provoking qualification gives students the practical skills, theoretical knowledge and confidence to succeed in a number of careers. Especially those in the creative industries.

They will investigate historical, social, cultural, environmental and economic influences on design and technology, whilst enjoying opportunities to put their learning in to practice by producing prototypes of their choice.

Course Content and Assessment:

- Linear exams across 2 years

Assessment is through 2 external exams and 1 non-exam assessment

1. Paper 1: Technical principles
2. Paper 2: Designing and making principles

Course Overview:

Paper 1: Technical Principles

- Students are expected to be able to name specific materials for a wide range of applications.
- They must also be able to provide detailed and justified explanations of why specific materials and combinations of materials are suitable for given applications, with reference to:
 - physical and mechanical properties (working characteristics)
 - product function
 - aesthetics
 - cost
 - manufacture and disposal.

Paper 2: Designing and making principles

- Interactive design process
- Design influences
- Design shape and movement
- Designers and their work

Non-Exam Assessment

Students design and make a single product

Learning Methods:

Learning will be based within the classroom. Students will be exposed to different texts to discuss. Peer and group work will enable discussion and debate within the classroom.

Students will be expected to independently complete the NEA with guidance from their teacher.

Career Opportunities:

Opportunities to progress to University or apprenticeships in all areas of Design and technology. Many students have gone on to study biomechanical engineering and chemical engineering

Entry Requirements:

- Grade 4 or above in English
- Grade 6 or above in Maths

Staff Contacts

K McCarthy - Assistant Headteacher Key Stage 5

N Winterflood - Year Leader

K Bowman - Head of Department



Web Link Address

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