

MATHEMATICS

Exam Board: Edexcel

FULSTON MANOR SCHOOL



WHY TAKE THIS COURSE?

The ability to think rationally and to process data clearly and accurately are highly valued by employers and there is a rapidly increasing demand for higher level mathematics skills in the modern economy. A successful candidate may look to the future with a wide range of options. Almost all areas of physical or applied sciences will be accessible to mathematical students in the world of work or if they wished to proceed to Higher Education. The following are some of the professions one could pursue:

- ♦ Teaching (mathematics education).
- ♦ The financial sector (accountancy, banking, financial risk assessor).
- ♦ Engineering (mechanical, electrical, electronic).
- ♦ IT (computer programming, system administration).

AIMS OF THE COURSE

- ♦ To enable a student to acquire further mathematical knowledge essential to Higher Education.
- ♦ To develop the understanding of mathematics and mathematical processes in a way that promotes confidence and fosters enjoyment.

- ♦ To recognise how a situation may be represented mathematically and understand the relationship between "real-world problems" and other mathematical models and how these can be refined and improved.
- ♦ To acquire skills needed to use technology such as calculators and computers effectively, recognizing when such use may not be appropriate and be aware of limitations.
- ♦ To develop an awareness of the relevance of mathematics to other fields of study, to the world of work and to society in general.
- ♦

COURSE STRUCTURE AND CONTENT

Paper 1: Pure Mathematics

Paper 2: Pure Mathematics

Paper 3: Statistics and Mechanics

ASSESSMENT

Assessment is by externally assessed examination. There is no coursework content for this qualification.

ENTRY REQUIREMENTS

To be accepted on these courses a student should have at least 5 GCSEs at grades 9 - 4 (or equivalent). There is a very high algebraic content within this course and students will need the solid foundation of at least a grade 6 in GCSE Mathematics to be able to become successful in this course.