

MATHEMATICS

Exam Board: AQA

Curriculum Lead: Rachel Clarke

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KEY INFORMATION

This linear course, designed with the help of higher education institutions, helps equip students with a strong understanding of higher-level mathematics including an increased use of technology. The course involves a holistic, non-modular approach to mathematics with problem solving and modelling being central. The course is assessed at the end of year 13 and involves three x 2-hour exams (all calculator). Two thirds of the course is pure maths, one sixth mechanics and one sixth statistics. The pure content includes topics such as proof, algebra and functions, coordinate geometry, sequences and series, trigonometry, exponentials and logarithms, differentiation, integration and numerical methods. The mechanics content includes kinematics, forces, moments and Newton's Laws. The statistics content includes sampling, data presentation and interpretation, probability, distributions and hypothesis testing.

ASSESSMENT:

- Paper 1 – Pure Maths
- Paper 2 – 50% Pure Maths 50% Mechanics
- Paper 3 – 50% Pure Maths and 50% Statistics

SUBJECT SPECIFIC ENTRY CRITERIA

5 GCSE grades 9-5, including English and a grade 6 in GCSE Mathematics.

POSSIBLE CAREER PATHS

- Engineering such as Civil/Mechanical/Structural
- Medical careers such as Doctor, Surgeon, Veterinary Surgeon or Dentist
- Educational careers such as Secondary or Higher Educational Teaching/Lecturing
- Accounting and Finance
- Actuary or Insurance

