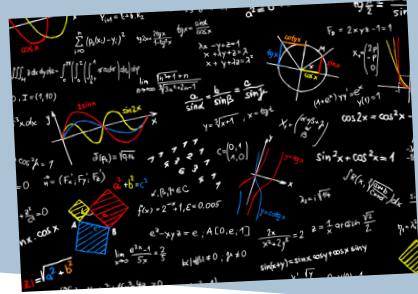


CORE MATHEMATICS

Curriculum Leader: Dawn Crichton

Primary Contact: James Cross

✉ jcross@heanorgate.derbyshire.sch.uk



UNITS:

- Level 3 Mathematical Studies

SUBJECT SPECIFIC ENTRY CRITERIA:

Grade 5 or above in GCSE mathematics.

KEY INFORMATION:

Core mathematics is a new Level 3 qualification designed for students who wish to develop their practical mathematics skills to benefit them in study, work and everyday life.

The AQA Mathematical Studies is an opportunity for students to study mathematics at a higher level in a way that will support and compliment other subjects, whilst gaining a robust AS qualification in its own right. The course has been developed with employers, universities and professional bodies as valuable preparation for higher education and employment. Mathematical Studies is a linear course meaning that it is assessed by examination only at the end of the academic year.

A summary of the content is given below:

Compulsory content: Analysis of data; Maths for personal finance; Estimation; Critical analysis of given data models.

Optional content: The normal distribution; Probabilities and estimation; Correlation and regression; Critical path analysis; Expectation; Cost benefit analysis; Graphical methods;



POSSIBLE CAREER PATHS:

- ➔ Engineering
- ➔ Banking
- ➔ Forensic Science



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MATHEMATICS

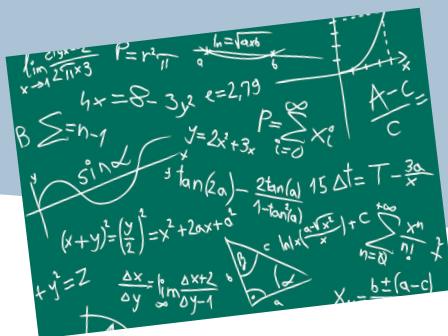
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UNITS:

- Core 1 (MPC1)
- Core 2 (MPC2)
- Statistics 1 (SS1B)



SUBJECT SPECIFIC ENTRY CRITERIA:

Grade 6 or above in GCSE mathematics.

KEY INFORMATION:

This involves one year of study that is assessed over three modules. The exams for each of the three modules are taken in the summer term. The three modules we offer at AS level are:

Core 1: Algebra; Co-ordinate geometry; Surds and indices; Differentiation; Integration

Core 2: Graphs and transformations; Trigonometry; Sequences and series; Exponentials and logarithms; Differentiation; Integration.

Core 3: Probability; Normal distribution; Binomial distribution; Correlation coefficient; Regression; Central limit theory; Sampling and estimation.

Within the first six weeks of the AS course students will be assessed at three points. These assessments focus largely on topics from the GCSE Mathematics higher course as well as some of the early topics from the Core 1 module. The assessments are used to inform decisions as to whether students are suitable to continue with the course. Mathematics is demanding at AS level and requires students to have good prior knowledge combined with the ability to work independently.



POSSIBLE CAREER PATHS:

- ➔ Medical career including; doctor, surgeon, veterinary surgeon and dentist
- ➔ Educational career; primary, secondary or higher educational teaching/lecturing
- ➔ Accounting and Banking

PREVIOUS RESULTS:

A*-B 76.5%



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