



Mathematics

Key Stage 3

At Key Stage 3, students experience a broad and balanced curriculum appropriate to their ability and potential in Mathematics.

Students are following a five year GCSE course where they are assessed using the GCSE grade levels 9-1 from year 7 through to year 11.

Subject areas covered by the National Curriculum include:

- Mathematical processes and applications
- Number
- Algebra
- Geometry and Measures
- Statistics

Homework is set weekly on Maths Watch. The Maths Watch tasks are listed for Years 7 – 11 on the VLE and are completed via the internet. Students are assessed regularly throughout the year, with half-termly formal assessments and Teacher assessments.

Useful Websites:

- Maths Genie
- PIXL Maths App
- PIXL Timetable App
- Login details can be found from class teaches.

Key Stage 4

The five year GCSE Mathematics programme starts in Year 7. The course is assessed 100% by final examination.

Students in Years 9 - 11 have 8 hours of Mathematics lessons per fortnight. Students develop life skills through study of Algebra, Number, Geometry and Statistics. They will develop:

Communication and team skills through individual and group tasks, Resilience, planning, interpretation and reasoning skills through problem solving and solutions of multi-stage questions.



All assessments will consist of three papers one non calculator and two calculator papers. There is now a greater emphasis on functional Maths and some questions are designed to test how the students apply their knowledge and communicate their answers.

KS4 will be starting the NEW 9 - 1 GCSE grading structure.

There are two tiers of entry:

Edexcel GCSE Higher - students can achieve a 9+

Edexcel GCSE Foundation - students can achieve a 5+.

All students therefore have the opportunity to obtain a grade C or above. Students are assessed formally each half term. Homework are set weekly on Maths Watch

Useful Websites:

- PiXL Maths APP
- Mathswatch
- Just maths
- GCSE POD

Login details can be found from class teaches.

Key Stage 5

To study A Level Mathematics students, need to have attained at least a Grade 6 in Mathematics at GCSE.

Level 3 Mathematical Studies (Core Maths)

Level 3 Mathematics explores the maths that young adults need as they begin to think about higher education and the world of work. The course teaches skills required to make calculations about student loans, interest rates and mortgages. The topics are also aimed at increasing student understanding of the modern world, applying maths to issues such as climate change, construction, health care and the economy.

Level 3 Mathematical Studies is a qualification designed for students who have achieved a grade 4 or above at GCSE.

AQA examinations board.



Subject content

- Analysis of data
- Maths for personal finance
- Estimation
- Critical analysis of given data and models
- The normal distribution
- Probabilities and estimation
- Correlation and regression

Useful websites:

www.aqa.org.uk

A-Level Maths

Students follow the Edexcel course and take a Pure Mathematics examination which includes the study of Algebra, Coordinate Geometry, Sequences, Trigonometry and Calculus. Students also take an Applied Mathematics examination which includes Statistics namely Probability, Correlation, Regression, Discrete Random Variables, the Normal Distribution and Mechanics namely forces and Kinematics

Students further develop their Pure and Applied mathematics knowledge.

Useful Websites:

- Mymaths
- Examsolutions.net
- Mathsnetalevel