

IB Mathematics



Introduction:

Mathematics is a broad spectrum which all pupils have studied since the moment they entered school, it provides a unique language to describe, explore and communicate the nature of the world we live in. The course we will deliver is

Applications and Interpretations and you will

- Use your knowledge of quadratics to identify minimum and maximum points to inform decisions
- Extend your knowledge to calculus and optimization problems which can be found within businesses
- Extend your knowledge of statistical calculations to analyse large amounts of data to make judgements and predictions

Throughout the course you can expect to work independently on investigations to develop a deeper understanding of the maths that you are using and to provide skills which can be used throughout your life to help break down problems and make sense of them.

Course structure:

The course is broken down into 5 key strands

- Number and Algebra
- Functions
- Geometry
- Probability and Statistics
- Calculus

Within each strand the questions are based around real life situations with a key focus on applying previously learnt knowledge.

Entry requirements:

To be admitted onto this course you will need to meet the following requirements:

- Grade 6+ in GCSE mathematics
- Grade 5 in English and Science

Careers:

There are many careers which this course supports with listed below are just some of them

- Accountant
- Financial adviser
- Quantity Surveyor
- Computer Scientist
- Stock broker
- Economist
- Statistician
- Data Analyst

Assessment:

Internal assessment (20%):

- One piece of coursework

External assessment (80%):

- Paper 1 – 2 hours (30%)
- Paper 2 – 2 hours (30%)
- Paper 3 – 1 hour (20%)