

**SUBJECT: MATHEMATICS IB HIGHER**

**HEAD OF DEPARTMENT:  
MS S EBBS**

**SYLLABUS NUMBER:  
N/A**

**SYNOPSIS OF CONTENT**

Functions and algebra.

Trigonometry – including identities.

Vectors – including 3 dimensional vectors

Calculus.

Statistics and probability.

**SKILLS THAT WILL BE DEVELOPED**

Logical thinking.

Mathematical methods.

Mathematical proof.

Use of graphical calculator.

**SOME USEFUL WEBSITES**

IB exam papers can be found on the school website

**ASSESSMENT**

20% Coursework.

A project to be completed in Lower Sixth.

Three examinations at the end of the course.

**SPECIFIC MATRICULATION  
REQUIREMENTS**

Grade 8 or higher at GCSE in Mathematics.

You need to be one of the best mathematicians in your year group. It is an excellent course for a student who has a real aptitude for Mathematics. It would be expected that such a student will study Mathematics, Engineering, Physics or Economics at a very good University. The course is more difficult than A Level Mathematics. Students must complete a work package over the summer. A test on this will be given in the first 2 weeks of term.

**OTHER INFORMATION****Eg Field Trips/expenses/books**

A TI-84 Plus calculator is advised. Approximate cost £70. You are encouraged to purchase through the school in September in the Lower Sixth at a discounted price. Options to loan the calculator are also available.

