

## **MATHEMATICS GCSE**

### **OCR Specification J512**

All boys study Mathematics at GCSE level, being entered at either Higher Tier or the Foundation Tier level of entry.

The course aims to develop understanding in a number of areas. Firstly, there is a body of basic mathematical language that needs to be taught and understood. Secondly the need to think logically and to write solutions in a precise, accurate manner is encouraged. Thirdly the ability to solve problems and apply mathematical knowledge in everyday situations runs through the course.

The course is treated as a three year one with Year 9 covering the Foundation Tier and some of the Higher Tier work. Years 10 and 11 complete the remaining topics needed for the Higher Tier examinations.

A decision on the level of GCSE entry is made as late as possible. In general, all 7 sets will be entered for Higher Tier with only a few students in the lowest set being entered for Foundation Tier. Both levels of examination involve two 2-hour papers taken at the end of Year 11. The first paper is non-calculator. There is no coursework.

## **ADDITIONAL MATHEMATICS GCSE**

### **OCR Specification J915**

All boys will also be entered for the Additional Mathematics GCSE as well. This is a second GCSE in Mathematics and comprises of a single 2-hour paper where a calculator is allowed. The emphasis of this paper is the application of the J512 syllabus to everyday situations and the grades available are from A\* to G. This is a single tier paper. There is no coursework.

## **FSMQ ADDITIONAL MATHEMATICS**

### **OCR Specification 6993**

The more able students in the top two sets are also taught the Free Standing Mathematics Qualification Additional Mathematics. This is not a GCSE. The exam is optional as the emphasis is that the students are taught topics that will strengthen their algebraic and trigonometric competence as well as allowing them to meet new topics such as calculus. This course is excellent preparation for A Level or IB Mathematics.

## **SIXTH FORM MATHEMATICS**

Study at Higher Tier, together with a very good grade, usually an A grade minimum, is essential for the continued study of Mathematics at A Level. With the advent of the Modular A Level this has become a popular course and a very successful one. At present, A Level Mathematics is the most popular course that is offered and a good foundation at GCSE level is essential for success.