

# MATHEMATICS



## **MATHEMATICS (Edexcel)** **Level of Study: A-Level**

### **Description of Course** **Year 12 & 13 A-Level 3 units**

This course aims to develop the ability to apply mathematical skills and techniques in other subjects and to lay foundations for the further study of mathematics and other disciplines. Pure mathematics in Mathematics and Further Mathematics will extend your knowledge of algebra and trigonometry and introduce new ideas such as calculus. You will also study applications of mathematics in mechanics and statistics. Mechanics is the study of the motion of objects and the forces acting upon them. In Statistics you will learn how to analyse data and draw conclusions from it using probability and other concepts.

The A2 GCE in mathematics consists of three externally examined papers. Students must complete all assessment in May/June in any single year.

Pure 1	2 hour written exam	100 marks	33.33% of the qualification
Pure 2	2 hour written exam	100 marks	33.33% of the qualification
Statistics and Mechanics	2 hour written exam	100 marks	33.33% of the qualification

### **Skills Required**

A good knowledge of all aspects of GCSE mathematics and a genuine enjoyment of mathematics and problem-solving.

### **Entry Qualifications**

Grade 9, 8 or 7 in GCSE Mathematics together with a recommendation from your current mathematics teacher.

**Contact Names** Mr M Frost [mf@lpgs.bromley.sch.uk](mailto:mf@lpgs.bromley.sch.uk)

### **Educational Progression and Career Opportunities**

Success in mathematics is an indication of the ability to think logically and to deal with abstract generalisations. Mathematics can complement almost any choice of subjects and is looked at favourably in applications for any Higher Education Course. A-Level Mathematics is essential for the study of engineering, physics and mathematics at degree level and is related to or strongly recommended for chemistry, medicine, economics, architecture, accountancy, teaching, computing, information technology, philosophy, psychology and other social sciences.