

SUBJECT GUIDE:

**Exam Board - Edexcel Pearson
GCE Advanced Level (A-Level)
Level 3 qualification**

WHY STUDY MATHS?

Achievement in Post 16 Mathematics relies on hard work, motivation and commitment. Every lesson generates at least one hour of private study and students will complete set work relating to new topics. You are advised to make full use of Maths Workshops that are available throughout the one or two years of study.

HOW WILL MATHS BE OF USE TO ME IN MY FUTURE CAREER?

An A Level in Mathematics is a valuable qualification that is always in demand in both the employment markets and universities. The ability to understand logical arguments and numerical information makes an A-Level mathematician sought after. Career opportunities range from financial and economic planning through management services, to scientific and industrial research, engineering and computing.

HOW MANY LESSONS WILL I HAVE EACH WEEK?

Lower Sixth students have 7 periods each week. Each period lasts 45 minutes.

Upper Sixth students have 8 periods each week. Each period lasts 45 minutes.

HOW WILL I BE EXAMINED?

Paper 1 and **Paper 2** may contain questions on any topics from the Pure Mathematics content.

Paper 3: Statistics and Mechanics

Each paper is: 2-hour written examination, 33.33% of the qualification, 100 marks.

SUBJECT OVERVIEW

Pure Maths: Proof, Algebra and functions, Coordinate geometry in the (x, y) plane; Sequences and series; Trigonometry; Exponentials and logarithms; Differentiation; Integration; Numerical methods; Vectors.

Statistics: Statistical sampling, Data presentation and interpretation, Probability, Statistical distributions, Statistical hypothesis testing.

Mechanics: Quantities and units in mechanics, Kinematics, Forces and Newton's laws, Moments.

WHAT IS THE SPECIFICATION CODE?

9MA0

TEACHER BIOGRAPHY

Kandiah Joined the College in September 2000. Kandiah is qualified with BSc Hons. (Mathematics), MSc (Computational Mathematics with Modelling - Brunel), and PGCE (Post compulsory- UCL Institute of education) and has taught Mathematics in UK since 1996. Previous to joining Regent he worked for Ealing Green College and has worked for Edexcel as an examiner since 2003.

“Pupils work in Mathematics and Science show detailed calculations and thoughtful problem-solving...”

Source – ISI Report, February 2020, Regent Independent College Harrow

“Pupils are numerate and handle statistical material with confidence...”

Source – ISI Report, February 2020, Regent Independent College Harrow