

mulberry

Academy Woodside

CORE SUBJECTS: GCSE Maths

HEAD OF DEPARTMENT

Miss L Yooyai

EXAM BOARD

Edexcel

BREAKDOWN OF MARKS

3 papers at either Higher or Foundation Tier

Paper 1 - Non - Calculator 80 marks 33.3%

Paper 2 - Calculator 80 marks 33.3%

Paper 3 - Calculator 80 marks 33.3%

Each paper is 90 minutes.

SKILLS

Develop fluent knowledge, skills and understanding of mathematical methods and concepts.

Acquire, select and apply mathematical techniques to solve problems.

Reason mathematically, make deductions and inferences, and draw conclusions.

Comprehend, interpret and communicate mathematical information in a variety of forms appropriate to the information and context.

VITAL INFORMATION

Two tiers are available: Foundation and Higher

Foundation tier: grades 1 to 5.

Higher tier: grades 4 to 9 (grade 3 is allowed).

Assessments throughout the course will determine your final tier of entry.

CURRICULUM CONTENT

The GCSE Mathematics curriculum will cover the following strands - Number, Algebra, Ratio, proportion and rates of change, Geometry and measures, Probability and Statistics. The topics mentioned below are covered in either Higher or Foundation tier. Some topics will be covered in both tiers.

Number - structure and calculation, fractions, decimals and percentages, measures and accuracy.

Algebra - notation, vocabulary and manipulation, graphs, solving equations and inequalities and sequences.

Ratio, proportion and rates of change - compound units, scale factors, ratio into real contexts, financial mathematics, direct and inverse proportion, growth and decay problems.

Geometry and measures - properties and constructions, mensuration and calculation, vectors.

Probability - frequency of outcomes, frequency trees, expected outcomes, relative expected frequencies, theoretical probability, mutually exclusive events, Venn diagrams, independent and dependent combined events.

Statistics - sampling, interpret and construct tables, charts and diagrams, compare the distributions of data sets, continuous and grouped data, interpret scatter graphs.

CURRICULUM & CAREER PROGRESSION

NEXT STEPS

A-Level

Mathematics, Further Mathematics, Economics, Biology, Chemistry, Physics, Computer Science, Geography, Psychology, Physical Education and Business Studies.

BTEC /Level 3

Core Mathematics, Engineering, Applied Science, Business Studies and Sport.

CAREERS

Mathematician
Automotive Design
Aeronautical Engineering
Mechanical Engineering
Motor Sports
Stock Broker
Doctor
Surgeon
Information Technology
Economist