



ERASMUS DARWIN ACADEMY

Excellence for All

GCSE Mathematics

Aims

The aim of the Qualification Stage course in Mathematics is to prepare students for their GCSE examinations whilst still promoting enjoyment, engagement and independence. We aim to provide a supportive and positive environment for the learning of mathematics and to prepare students for their next stage of their lives.

The Course

The course will follow the new reformed GCSE, which sees an increase in demand and rigour. Students will be awarded a grades 1-9 with grade 9 being the top grade and 1 being the lowest grade. This linear GCSE course includes topics from Number, Algebra, Ratio, Proportion and Rates of Change, Geometry and Measures, and Statistics and Probability. The GCSE has an emphasis on problem solving, with students needing to identify the maths needed to solve a problem and apply these skills effectively, as well as combining different skills across the course. The maths GCSE aims to equip students with the ability to reason, deduce and infer, as well as developing fluency with mathematical knowledge, skills and understanding.

Assessment

The course is assessed by examinations only and does not contain a coursework element. There are two tiers of entry available, Foundation Tier covering grades 1-5 and Higher Tier covering grades 4-9. Each tier will have three 1½ exams, one non-calculator and two calculator exams. Students will need to memorise a number of formula for use in their examinations.

Post 16 Opportunities and Careers

On completion of the GCSE students may continue their studies in Mathematics at the Academy Sixth Form. Mathematics is offered at A level, which is a challenging yet popular course and is in high demand with universities and helps students develop independence and problem solving skills that apply to a variety of careers. Mathematics is essential for careers in Engineering, Architecture, Actuarial Science, Accountancy and Physics. It will help any student who wishes to study Chemistry and Biology, as well as helping in careers involving statistical work such as Geography, Psychology, Economics and Business.

Exam Board Information



<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/mathematics-2015.html>

Contact

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