MATHS
Plans for Year 10 & 11 GCSE Curriculum

In Mathematics, a broad and progressive curriculum is delivered across all year groups. In Year 10 and year 11, our cohort is organised into five sets. The table below provides an overview of the core knowledge and skills taught each half term. However, a more detailed breakdown of topics for each set could vary.

Higher tier

Year Group	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
10	Compound interest, algebraic fractions, quadratic methods, and problem-solving.	Graphs (cubic, reciprocal), similarity, area problems, and data interpretation.	Circle theorems, recurrence, indices, and algebraic proof.	Iteration, coordinate geometry, trig graph transformations, and angle reasoning.	Graphs, inequalities, 2D transformations, and circle geometry problems.	Constructions, revision, gap analysis, and exam preparation.
11	Revision of key number and algebra methods with exam applications.	Geometry, algebra, number practice, and gap analysis.	Revision of higher-level algebra and geometry with practice papers.	Probability, statistics, functional problems, and exam technique.	Revision, practice, and timed assessments.	Final exams and preparation.

Foundation tier

Year Group	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
10	Number skills with integers, decimals, rounding, BIDMAS, estimation, powers and roots.	Percentages (increase, decrease, interest, reverse), algebra basics, equations, and area/perimeter.	Fractions, HCF/LCM, prime factorisation, fractions operations, conversions, percentages.	Sequences, indices, bounds, coordinate geometry, Pythagoras, and angle reasoning.	Compound measures, transformations, ratio and proportion, similarity, and exam practice.	Equations, quadratics, constructions, data handling (charts, averages, sampling), probability, sequences, and standard form.
11	Percentages, algebraic manipulation, and formula rearrangement recap.	Equations, factorising quadratics, and substitution skills consolidated.	Geometry constructions, loci, pie charts, and data interpretation.	Probability with Venn diagrams, tree diagrams, and experimental methods.	Sequences, standard form, and advanced exam practice.	Final exam preparation with revision and gap analysis.

Paper 1:	DETAILS ABOUT CONTENT – **This is a non –- calculator paper. Length 90 minutes.** Specification overview [**Maths GCSE | Edexcel GCSE Mathematics (2015) | Pearson qualifications**] Exam materials [Maths Genie • Edexcel GCSE Maths Past Papers, Mark Schemes, Model Answers and Video Solutions]
Paper 2:	DETAILS ABOUT CONTENT – Use **of the calculator is allowed. Length 90 minutes.** Specification overview [**Maths GCSE | Edexcel GCSE Mathematics (2015) | Pearson qualifications**] Exam materials [Maths Genie • Edexcel GCSE Maths Past Papers, Mark Schemes, Model Answers and Video Solutions]
Paper 3:	DETAILS ABOUT CONTENT – **Use of the calculator is allowed. Length 90 minutes.** Specification overview [**Maths GCSE | Edexcel GCSE Mathematics (2015) | Pearson qualifications**] Exam materials [Maths Genie • Edexcel GCSE Maths Past Papers, Mark Schemes, Model Answers and Video Solutions]