Year 11 Higher Curriculum

Term	Topic	Details
1	Circle theorems	Angles review, Radii, chords and isosceles triangles, Know theorems and correct language, Apply with reasoning, Combine circle theorem rules, Circle geometry proofs, Equations of tangents
	Further algebra	Algebraic fractions – simplifying, rearranging and four operations, Rearranging more complex formulae, Solving equations involving algebraic fractions, ratio to fraction.
2	Surds, iteration and algebraic proof	Surds including rationalising the denominator, Iterative methods, Algebraic proof
	Functions	Functions and function notation, transforming functions
	Vectors	Definition and notation, Vector arithmetic, Parallel vectors and collinear points, Geometric problem solving, Vector proofs
3	Proportion and graphs	Direct and inverse proportion (formal method) and interpretation in context, Exponential growth and decay review, Exponential graphs, Translating graphs, Velocity time graphs, Gradient at a point and area under a curve – interpretation in context
4	Sequences	Sequences including quadratic & Fibonacci
	Transformations	Reflections, Translations, Rotations, Enlargements – positive, negative and fractional scale factors, Combined Transformations, Describing Transformations

Each topic is tested through low stakes testing on a regular basis and students receive feedback and the opportunity to improve.

There is a practice mock in October, then 2 sets of mock exams (November and February) before the GCSE exams 3 papers (NC & 2 calculator papers) in May and June.