Curriculum Overview

	Cycle 1	Cycle 2	Cycle 3
Year 12 Further Maths	Mathematics A-Level content studied in Year 12. **Pure**: Algebraic methods, proof, graphs, calculus, trigonometry, exponentials and logarithms **Statistics**: Probability and distributions, data analysis and representation **Mechanics**: Forces and motion, constant acceleration	Mathematics A-Level content studied in Year 12. **Pure**: Trigonometry, Calculus, algebraic methods, sequences and series **Statistics**: Hypothesis testing, linear regression **Mechanics**: Moments, projectiles	Mathematics A-Level content finished: Further calculus, numerical methods, conditional probability, the normal distribution, dynamics and statics, friction Then review + start Further Mathematics content. **Core Pure**: Series, proof by induction, complex numbers, matrices, further algebra **Further Statistics**: Discrete probability distributions **Further Mechanics**: 1-D momentum, conservation of energy
Year 13 Further Maths	**Core Pure**: Linear transformations, vectors, polar coordinates, differential equations **Further Statistics**: Further statistical distributions, hypothesis testing, the Central Limit Theorem **Further Mechanics**: Elastic collisions, power, momentum	**Core Pure**: Further complex numbers, further calculus, hyperbolic functions, revision **Further Statistics**: Chi squared tests, probability generating functions, evaluating quality of tests, revision **Further Mechanics**: Elastic energy, oblique collisions, revision	**Core Pure**: Revision **Further Statistics**: Revision **Further Mechanics**: Revision