

	Autumn Term	Spring Term	Summer Term
Year 12	<p>Curriculum:</p> <p><b>Pure:</b> Surds and Indices (AS), Trigonometry (AS), Quadratic functions (AS), Coordinate Geometry, Equations and Inequalities, Exponentials and Logarithms (AS), Polynomials, Binomial Expansion, Graphs and Transformations, Sequences and Series, Calculus, Proof</p> <p><b>Mechanics:</b> Kinematics (AS), Vectors, Forces and Newton's Laws, Variable acceleration</p> <p><b>Statistics:</b> Data collection, Data PPI, Probability, Binomial Distribution</p>	<p>Curriculum:</p> <p><b>Pure:</b> Functions, Trigonometry(A2), Differentiation (A2), Integration (A2) Further Algebra,</p> <p><b>Mechanics:</b> Force and Motion, Friction, Moments, Projectiles</p> <p><b>Statistics:</b> Probability, Probability Distributions, Hypothesis Testing</p>	<p>Curriculum:</p> <p><b>Pure:</b> Numerical methods, Parametric Equations, Differential Equations, Complex Numbers (AS)</p> <p><b>Mechanics:</b> Kinematics (A2), Dimensional Analysis</p> <p><b>Statistics:</b> Poisson Distribution Discrete: Graphs, Linear programming</p> <p>Students now choose 2 FM applied options to continue studying. The choice is made from: Discrete, Mechanics, Statistics</p>
	<p>Formal Assessment*: Baseline assessment (First week of term) Progress check (First week after half-term)</p>	<p>Formal Assessment*: <a href="#">Y12 Mock Exams</a></p>	<p>Formal Assessment*: <a href="#">Y12 Mock Exams</a></p>
Year 13	<p>Curriculum:</p> <p><b>Pure:</b> Matrices (AS), Further Algebra (AS), Proof, Calculus (AS), Polar Coordinates, Hyperbolic functions</p> <p><b>Mechanics:</b> Momentum and Collisions, Work Energy and Power</p> <p><b>Statistics:</b> DRVs, CRVS, Chi-Squared Distribution, Type I and Type II Errors</p> <p><b>Discrete:</b> Networks, Network Flow, CPA</p>	<p>Curriculum:</p> <p><b>Pure:</b> Vectors, Calculus (A2), Complex Numbers (A2), First and Second Order Differential Equations, Matrices (A2), Numerical Methods</p> <p><b>Mechanics:</b> Circular Motion, Centres of Mass and Moments</p> <p><b>Statistics:</b> Exponential Distribution, t-distribution, Confidence Intervals</p> <p><b>Discrete:</b> Game Theory, Group Theory</p>	<p>Curriculum:</p> <p>Revision and consolidation across the syllabus</p>
	<p>Formal Assessment*: Progress Check (First week after half-term)</p>	<p>Formal Assessment*: <a href="#">Y13 Mock Exams</a></p>	<p>Formal Assessment*: AQA GCE A-level Mathematics AQA GCE A-level Further Mathematics</p>

\*At CamSF, assessment happens at many levels and is perhaps most important when teachers assess what students have learned and remembered within the classroom. Timely feedback is so important in enabling progress and knowledge retention.