

## KS5: A level Further Mathematics

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 12</b>  <b>EDEXCEL</b>  Pure Maths 1: 9MA0-01 (A)  Pure Maths 2: 9MA0-02 (A)  Statistics and Mechanics: 9MA0-03 (A)	<b>Pure</b> <ul style="list-style-type: none"> <li>Algebraic Expressions</li> <li>Quadratics</li> <li>Equations and Inequalities</li> <li>Graphs and Transformations</li> <li>Straight Line Graphs</li> </ul> <b>Applied: Statistics</b> <ul style="list-style-type: none"> <li>Data Collection</li> <li>Measure of Location and Spread</li> <li>Representation of Data</li> <li>Correlation</li> <li>Probability</li> </ul>	<b>Pure</b> <ul style="list-style-type: none"> <li>Circles</li> <li>Algebraic Methods</li> <li>Binomial Expansion</li> <li>Trigonometric Ratios</li> <li>Trigonometric Identities and Equations</li> </ul> <b>Applied: Statistics</b> <ul style="list-style-type: none"> <li>Statistical Distributions</li> <li>Hypothesis Testing</li> </ul> <b>Applied: Mechanics</b> <ul style="list-style-type: none"> <li>Modelling in mechanics</li> <li>Constant acceleration</li> </ul>	<b>Pure</b> <ul style="list-style-type: none"> <li>Vectors 1</li> <li>Differentiation</li> <li>Integration</li> <li>Exponentials and logs</li> <li>Algebraic Methods</li> </ul> <b>Applied: Mechanics</b> <ul style="list-style-type: none"> <li>Forces and Motion</li> <li>Variable acceleration</li> </ul> <b>Applied: Statistics</b> <ul style="list-style-type: none"> <li>Regression and Correlation</li> </ul>	<b>Pure</b> <ul style="list-style-type: none"> <li>Functions and Graphs</li> <li>Sequences and Series</li> <li>Binomial Expansion</li> <li>Radians</li> <li>Trigonometric functions</li> </ul> <b>Applied: Statistics</b> <ul style="list-style-type: none"> <li>Normal Distribution</li> </ul> <b>Applied: Mechanics</b> <ul style="list-style-type: none"> <li>Moments</li> <li>Forces and Friction</li> </ul>	<b>Pure</b> <ul style="list-style-type: none"> <li>Trigonometry and modelling</li> <li>Parametric Equations</li> <li>Differentiation</li> <li>Numerical Methods</li> <li>Integration</li> </ul> <b>Applied: Mechanics</b> <ul style="list-style-type: none"> <li>Projectiles</li> <li>Application of Forces</li> <li>Further Kinematics</li> </ul> <b>Exam Revision</b>	<b>Pure</b> <ul style="list-style-type: none"> <li>Vectors</li> </ul> <b>Mock Exams Start Year 13 Syllabus</b>
<b>Year 13</b>  <b>EDEXCEL</b>  Core Pure Maths 1: 9FM0-01 (H)  Core Pure Maths 2: 9FM0-02 (H)  <b>OPTIONS</b> Further Mechanics 1: 9FM0-03 (H) Further Statistics 1: 9FM0-04 (H)	<b>Core Pure</b> <ul style="list-style-type: none"> <li>Complex Numbers 1</li> <li>Argand Diagrams</li> <li>Series</li> <li>Roots of Polynomials</li> <li>Volumes of Revolution</li> </ul> <b>Further Mechanics 1</b> <ul style="list-style-type: none"> <li>Momentum and Impulse</li> <li>Work Energy and Power</li> <li>Elastic Strings and Springs</li> </ul>	<b>Core Pure</b> <ul style="list-style-type: none"> <li>Matrices</li> <li>Linear Transformation</li> <li>Proof by Induction</li> <li>Vectors</li> </ul> <b>Further Mechanics 1</b> <ul style="list-style-type: none"> <li>Elastic Collisions in 1D</li> <li>Elastic Collisions in 2D</li> </ul> <b>Further Statistics 1</b> <ul style="list-style-type: none"> <li>Discrete random variables</li> </ul>	<b>Core Pure</b> <ul style="list-style-type: none"> <li>Complex Numbers 2</li> <li>Series</li> <li>Methods in Calculus</li> <li>Volumes of Revolution 2</li> </ul> <b>Further Statistics 1</b> <ul style="list-style-type: none"> <li>Poisson Distribution</li> <li>Geometric and Negative Binomial Distributions</li> <li>Hypothesis Testing</li> </ul>	<b>Core Pure</b> <ul style="list-style-type: none"> <li>Polar Coordinates</li> <li>Hyperbolic Functions</li> <li>Methods in Differential Equations</li> </ul> <b>Further Statistics 1</b> <ul style="list-style-type: none"> <li>Central Limit Theorem</li> <li>Chi-squared Tests</li> <li>Probability generating functions</li> <li>Quality of tests</li> </ul>	<b>Exam Revision</b>	<b>Official Examinations</b>