

**Curriculum Subject: Mathematics KS5 (Broad List of topics repeated in Year 12 & Year 13)**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>YEAR 12</b>	<b>Pure Mathematics -</b>	<b>Mechanics and pure mathematics -</b>	<b>Statistics and pure mathematics</b>	<b>Mechanics and statistics</b>	<b>Mechanics and statistics/ Pure mathematics</b>	<b>Pure mathematics</b>
	Algebra and functions Indices and surds Coordinate geometry Algebra and functions	Further algebra Differentiation Integration Units in mechanics Kinematics Trigonometry	Statistical Sampling, Data Presentation and Interpretation, Vectors , exponentials and logarithms.	Probability, Statistical distributions, hypothesis testing, Forces and Newton's Law, Kinematics,	Hypothesis testing, kinematics. Proof Partial fractions Radian measure	Trigonometry Differentiation.
<b>YEAR 13</b>	<b>Pure Mathematics -</b>	<b>Pure mathematics</b>	<b>Statistics and mechanics</b>	<b>Statistics and mechanics</b>	<b>Mechanics &amp; Statistics</b>	<b>External ams</b>
	Differentiation Trigonometry Series and sequences Functions and modelling	Series and sequences Integration Trigonometry Parametric equations 3D vectors	Numerical methods Regression and correlation conditional probability Moments Force and friction	Conditional probability Normal distribution Projectiles Forces Kinematics	Review of stats and mechanics	

**Sf Bede's Curriculum Design Principles**

Within subjects: depth, relevance, sequencing, spacing

Between subjects: breadth, cultural capital, coherence, progression, interlinking