

# St John's Curriculum Overview – Year 13

<b>Subject title</b>	<b>Mathematics</b>
Setting arrangements	No setting
Time allowance each fortnight	9 hours

## Introduction

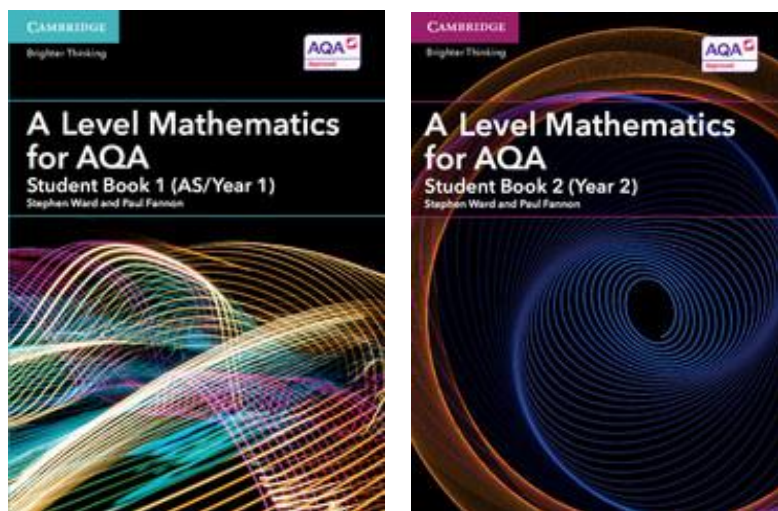
A Level Maths at St John's is taught to the AQA 7357 specification. A Grade 6 at GCSE is required for this course.

## Topics, Skills and Assessment covered during the course

	<b>Topics covered</b>	<b>Skills developed</b>	<b>Assessment</b>
<b>Term 1</b>	Rational Functions and Partial Fractions General Binomial Expansion Numerical Solutions of Equations Radian Measure Further Trigonometry	Extension of Year 12 knowledge and the introduction of new skills, dependent on the topics covered. Details are found at the beginning of each chapter in the text book.	Homework and teacher assessment
<b>Term 2</b>	Numerical Integration Applications of Vectors Further Differentiation	Extension of Year 12 knowledge and the introduction of new skills, dependent on the topics covered. Details are found at the beginning of each chapter in the text book.	Cross Topic Review Homework and teacher assessment
<b>Term 3</b>	Projectiles Forces in Context Moments Calculus of Exponential and Trig Functions	Extension of Year 12 knowledge and the introduction of new skills, dependent on the topics covered. Details are found at the beginning of each chapter in the text book.	Homework and teacher assessment
<b>Term 4</b>	Further Applications of Calculus Differential Equations Conditional Probability	Extension of Year 12 knowledge and the introduction of new skills, dependent on the topics covered. Details are found at the beginning of each chapter in the text book.	Mock Exams Homework and teacher assessment

<b>Term 5</b>	Further Hypothesis Testing Review and Exam Preparation	Extension of Year 12 knowledge and the introduction of new skills, dependent on the topics covered. Details are found at the beginning of each chapter in the text book.	Homework and teacher assessment
<b>Term 6</b>	Study Leave		A Level Exams <ul style="list-style-type: none"> <li>• 3 x 2 hour papers</li> <li>• Paper 1 – Pure Maths only</li> <li>• Paper 2 – Pure and Mechanics</li> <li>• Paper 3 – Pure and Statistics</li> </ul>

**Resources Recommended for Revision and where they are available:**



These books are available in class and every student is given a code to access an extended electronic version.

**Homework**

Every student is expected to match the number of hours spent in lessons with work completed in their own time.

**Additional support and help for the course**

One afternoon after school per week is set aside for revision workshops.

**Extra-Curricular:**

UKMT Maths Challenge, Team Maths Challenge and Olympiad for Girls