



## St John's Curriculum Overview – Year 12



|                               |                      |
|-------------------------------|----------------------|
| <b>Subject title</b>          | <b>Maths Studies</b> |
| Setting arrangements          | No setting           |
| Time allowance each fortnight | 5                    |

### Introduction

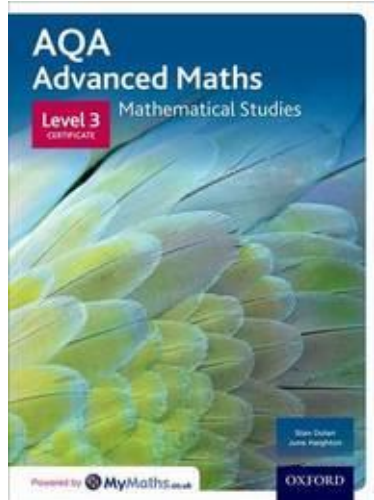
The Level 3 Certificate in Mathematical Studies is an AS Level equivalent qualification studied over 2 years. A Grade 4 in GCSE Maths is required for this course.

### Topics, Skills and Assessment covered during the course

|               | <b>Topics covered</b>   | <b>Skills developed</b>   | <b>Assessment</b>                                     |
|---------------|---|---|---|
| <b>Term 1</b> | Introduction to Spreadsheets<br>Types of Data<br>Collecting Data<br>Numerical Calculations<br>Percentages | Extension of GCSE 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> | Fermi Estimation<br>Representing Data Numerically<br>Representing Data Diagrammatically<br>Interest Rates | Extension of GCSE 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 3</b> | Equation of a Straight Line<br>Collecting and Sampling Data<br>The Normal Distribution                    | Extension of GCSE 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<br>Homework and teacher assessment |
| <b>Term 4</b> | Review and Recap<br>Solution to Financial Problem<br>Perimeter, Circumference and Area                    | Extension of GCSE 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 5</b> | Similarity and Pythagoras' Theorem<br>Critical Analysis I   | Extension of GCSE 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<br>Homework and teacher assessment |

|               |   |   |  |
|---------------|---|---|--|
| <b>Term 6</b> | Surface Area and Similarity<br>Analysis of Data Project | Extension of GCSE 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. | End of Year Exam <ul style="list-style-type: none"> <li>• 1x 1.5 hour paper</li> </ul> |
|---------------|---|---|--|

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



Text books are handed out in class and signed for in the library.

**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:**

TBA