

COURSE INFORMATION**Subject: Y12 MATHEMATICS & STATISTICS****Head of Subject: MRS LEE MANN**

	Year 12 Calculus (12MAC)	Year 12 Statistics (12MAS)
Course Content	This Mathematics course prepares students for further study in areas such as mathematics, physical science and engineering. Students taking Physics are strongly advised to take this course. Students taking Chemistry or Commerce are encouraged to take this course. This course leads into Year 13 Calculus.	This Statistics course prepares students for further study in areas such as statistics, biology and psychology. Students taking Biology are encouraged to take this course. This course has a large internal assessment load. This course leads into Year 13 Statistics.
Pre-Requisites	Must have 1.2 Algebra Ideally have: 1.3 Tables, Equations & Graphs 1.6 Geometry or 1.7 Right Angled Triangles	12 Maths credits at Level 1 Ideally have: 1.12 Chance & Data
Assessment	<u>Externals</u> 2.6 Apply algebraic methods in solving problems (4 credits) 2.7 Apply calculus methods in solving problems (5 credits) <u>Internals</u> 2.1 Apply coordinate geometry methods in solving problems (2 credits) 2.2 Apply graphical methods in solving problems (4 credits) 2.4 Apply trigonometric relationships in solving problems (3 credits) 18 credits total	<u>Externals</u> 2.12 Apply probability methods in solving problems (4 credits) <u>Internals</u> 2.5 Use networks in solving problems (2 credits) 2.8 Design a questionnaire (3 credits) 2.9 Use statistical methods to make an inference (4 credits) 2.11 Evaluate a statistically based report (2 credits) 2.13 Investigate a situation involving elements of chance using a simulation (2 credits) 17 credits total
Costs	Workbooks - approximate cost \$35 Graphics Calculator (e.g. Casio FX9860GIII)	Workbooks - approximate cost \$42 A Graphics Calculator (e.g. Casio FX9860GIII) is advantageous for AS2.12. Otherwise, a Scientific calculator (e.g. Casio FX82) is required.