

Subject: MATHEMATICS & STATISTICS

Head of Subject: MISS SUE ROBERTSON

	Year 12 Calculus (12MAC)	Year 12 Statistics (12MAS)
Course Content	This Mathematics course prepares students for further study in	This Statistics course prepares students for further study in areas
	areas such as mathematics, physical science and engineering.	such as statistics, biology and psychology.
	Students taking Physics are strongly advised to take this course.	This course has a large internal assessment load.
	Students taking Chemistry or Commerce are encouraged to take	
	this course. Students with a love of mathematics are advised to take this course.	This course leads into Year 13 Statistics.
	This course leads into Year 13 Calculus and/or Statistics.	
Prerequisites	Must have:	12 Maths credits at Level 1
	1.4 Demonstrate mathematical reasoning (AS91947)	
		Ideally have:
		1.2 Explore mathematical problems that relate to life in Aotearoa New Zealand (AS91945) and/or
		1.3 Interpret and apply mathematical and statistical information (AS91946)
Assessment	<u>Externals</u>	<u>Externals</u>
	2.6 Apply algebraic methods in solving problems (4 credits)	2.12 Apply probability methods in solving problems (4 credits)
	2.7 Apply calculus methods in solving problems (5 credits)	<u>Internals</u>
	<u>Internals</u>	2.1 Apply coordinate geometry methods in solving problems (2
	2.1 Apply coordinate geometry methods in solving problems (2	credits) 2.4 Apply trigonometric relationships in solving problems (3
	credits)	credits)
	2.2 Apply graphical methods in solving problems (4 credits)	2.5 Use networks in solving problems (2 credits)
	2.4 Apply trigonometric relationships in solving problems (3	2.9 Use statistical methods to make an inference (4 credits)
	credits)	2.13 Investigate a situation involving elements of chance using a
		simulation (2 credits)
	18 credits total	17 credits total
Costs	Workbooks - approximate cost \$35	Workbooks - approximate cost \$42
	Graphics Calculator (e.g. Casio FX9860GIII)	Graphics Calculator (e.g. Casio FX9860GIII) is highly recommended for AS2.12.
		Otherwise, a Scientific calculator (e.g. Casio FX82) is required.