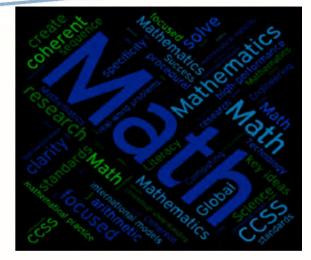
SPECIALIST MATHEMATICS

Specialist Mathematics has been established as a basis for further education and employment in the fields of science, all branches of mathematics and statistics, computer science, medicine, engineering, finance and economics.





Our Mission

To develop inspired, innovative and resilient learners prepared to challenge the future.

Specialist Mathematics

General Subject Senior Program 11-12





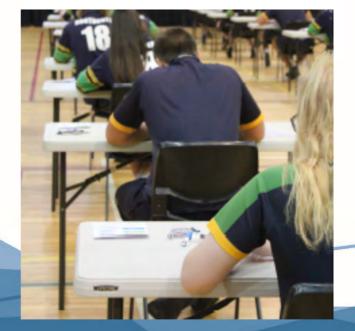
SPECIALIST MATHEMATICS

Specialist Mathematics has been designed for students who both enjoy and thrive in a mathematical environment. It helps students gain an appreciation of the true nature of

mathematics, its beauty and its power.

Specialist Math builds on topics from Methods as well as introducing several new areas of study.

Specialist is the recommended study for students wanting to enter into further education or employment in mathematic and statistics, computer science, medicine, engineering, finance and economics.



TOPICS: UNIT 1 and 2

Unit 1	Unit 2 Complex numbers, trigonometry, func- tions and matrices	
Combinations, vectors and proof		
 Combinations Vectors in the plane Introduction to proof 	 Complex numbers 1 Trigonometry and functions Matrices 	

TOPICS: UNIT 3 and 4

Unit 3		
Problem Solving and Modelling Task	20%	
Examination	15%	
Unit 4		
Examination	15%	
Unit 3 & 4		
External Examination	50%	

For successful completion of Specialist Mathematics students need to undertake in External Examination at the end of their final year of study that is weighted at 50% of their overall grade.

ASSESSMENT

The topics within Unit 1 and 2 will be assessed through formative assessment items. These items mirror the assessments seen in Units 3 and 4.

Unit 3 Mathematical induction, and further vectors, ma- trices and complex numbers		Unit 4 Further statistical and calculus inference	

PRE/CO-REQUISITE

Students studying Specialist Math must also complete **Mathematical Methods**.

To choose specialist Mathematics students must have achieved either a:

1.B or higher in Mathematics Extension

2.C or higher in Science and Maths Academy