

VCE SPECIALIST MATHEMATICS

UNITS 3 & 4

For more detail on this course please visit:

<https://www.vcaa.vic.edu.au/curriculum/vce/vce-study-designs/specialistmathematics/Pages/Index.aspx>

SPECIALIST MATHEMATICS

- Specialist Mathematics Units 3 and 4 provide a course of study for students who wish to undertake an in-depth study of mathematics, with an emphasis on concepts, skills and processes related to mathematical structure, modelling, problem solving and reasoning.
- Specialist Mathematics Units 3 and 4 assumes familiarity with the key knowledge and skills from Mathematical Methods Units 1 and 2 and selected key knowledge and skills from Specialist Mathematics Units 1 and 2.
- A student studying Specialist Mathematics Units 3 and 4 must also complete Mathematical Methods Units 3 and 4.

CONTENT REQUIREMENTS FOR UNITS 3 & 4

- The areas of study for Specialist Mathematics Units 3 and 4 are:
- 'Functions and graphs'
- 'Algebra'
- 'Calculus'
- 'Vectors'
- 'Mechanics'
- 'Probability and statistics'

OUTCOMES

- Each assessment task will check that you have satisfactorily completed/demonstrated the following outcomes for that topic:
- **Outcome 1:** Be able to define and explain key concepts and apply a range of related mathematical routines and procedures.
- **Outcome 2:** Be able to apply mathematical processes in non-routine contexts, including situations requiring problem-solving, modelling or investigative techniques.
- **Outcome 3:** Be able to select and appropriately use technology to develop mathematical ideas, produce results and carry out investigations.

ASSESSMENT/SACS

- Tests
- Investigations
- Exams