



Advanced Mathematics

Description

Students who have been recommended by their Year 9 Maths teacher may elect to do this course. The course is designed for students who intend to do VCE Unit 1 & 2 Mathematical Methods (CAS). This course provides access to the broadest range of mathematics programs in the senior years.

Unit Topics

Units studied will include topics chosen from the following:

- *Chance and Probability*
- *Geometry and Measurement*
- *Linear graphs and modelling – Irrational Numbers*
- *Trigonometry and graphs*
- *Polynomials and their graphs – Introductory Calculus*
- *Expansion and factorisation of Polynomials*
- *Data Analysis*
- *Problem Solving*
- *Using Technology*
- *Other topics as needed*

Skill Development

Emphasis on further development of skills in algebra and graphing measurement and geometry, probability and statistics. Projects will help develop critical thinking, investigative and problem solving skills.

Possible Assessment Tasks

Tests, projects and assignments.

Activities/Camps/Excursions

Skills development, research, coding and investigative projects.

Career Options

Advanced Mathematics is highly recommended for students considering future studies in Mathematics, Engineering, Sciences, Information Technology, Economics and Commerce, Law and Medicine related courses.