
YEAR 10 SUBJECTS

Mathematics is composed of multiple but interrelated and interdependent concepts and systems which students apply beyond the mathematics classroom.

The Mathematics curriculum at the College provides students with carefully paced, in-depth study of critical skills and concepts. It encourages students to become self-motivated, confident learners through inquiry and active participation in challenging and engaging experiences.

Mathematics – 10 Mathematics 1 and 2

The study of mathematics will assist you to think critically and act logically to evaluate situations, solve problems and make decisions, identify patterns and form generalisations, use technology, instruments, tools, and information systems, effectively communicate ideas and information, plan and organise activities and collaborate with others.

This study provides you with a mathematical base with emphasis on content which will be of use in society. This will be complemented with skill development in appropriate technologies. You will develop knowledge in the areas of money and financial arithmetic, measurement, simple algebra, linear functions and graphing, geometry, probability and statistics.

Technology to support the learning of mathematics will be incorporated throughout the course in the use of CAS calculators, spreadsheets, graphing packages and computer algebra systems.

This study is suitable for students who wish to continue into Year 11 General Mathematics with the possibility of continuing to Year 12 Further Mathematics.

Mathematics – Advanced Mathematics 1

The study of Advanced Mathematics 1 will assist you to think critically and act logically to evaluate situations, solve problems and make decisions, identify patterns and form generalisations, use technology, instruments, tools, and information systems, effectively communicate ideas and information, plan and organise activities and collaborate with others.

You will complete a course that provides a sound background in number, algebra, function, measurement, geometry, probability and statistics. The appropriate use of technology to support the learning of mathematics will be incorporated throughout the course in the use of CAS calculators, spreadsheets, graphing packages and computer algebra systems.

This study provides extended mathematical training for those students who wish to continue their studies in functions, algebra and calculus. Students choosing this subject generally intend to continue to a tertiary level of study which may require mathematics as a prerequisite for entry.

Mathematics – Advanced Mathematics 2

Advanced Mathematics 2 contains additional content suitable for development of a student's Mathematical background in preparation for further study of functions, algebra, calculus, statistics and trigonometry.

Students satisfactorily completing Advanced Mathematics 2 may continue into VCE studying any combination of Units 1 and 2 Mathematics. You must have completed Advanced Mathematics 1 prior to attempting this unit.