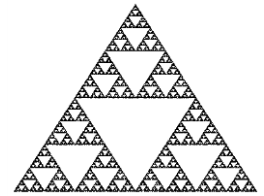# Mathematics B

Overview

To attain a QCE students must pass a numeracy subject. It is therefore essential that students select the subject that is right for them.

Senior Mathematics is offered through four different subjects, Prevocational Maths, Maths A, Maths B and Maths C (see the related links section for information on the other options).

Some Mathematics subjects are a prerequisite (or are recommended) for studying some university subjects. Please check the relevant university guides to make sure you make the correct choices.

Maths B is an authority subject meaning it contributes towards an OP. Assessment in this subject is comprised of one assignment and two exams per semester. It is expected that a significant amount of assignment work and independent study is completed outside of class time.

Maths B has a strong problem solving focus and relies heavily on the use of algebra to solve problems mathematically. It is a good choice for students wishing to follow a university pathway in the Science, Mathematics, Medical or Engineering fields.

Subject Requirements

Due to the rigorous content and higher order thinking required to complete Mathematics B it is essential that students have achieved at least a 'B' standard in year 10 Extension Mathematics.

It is a requirement of Mathematics B that all students have their own text book, exercise book, scientific calculator and stationary (see the P&C supplied booklist for details). It is also recommended that students purchase a TI-84 plus Graphics calculator (these can be supplied by the P&C resource scheme).

Subject Outline

Semester 1	Functions
	Applied statistical analysis
	Periodic Functions
Semester 2	Applied statistical analysis
	Geometric Sequences
	Finance
	Differentiation
Semester 3	Functions
	Rates of Change
	Optimisation
	Integration
	Exponents and Logs
Semester 4	Periodic Functions
	Integration
	Statistics and Probability

Study Pathways