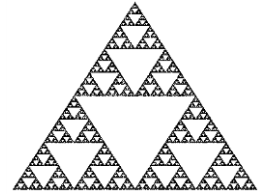




# Mathematics C



## Overview

Mathematics C extends on skills in problem solving and justification developed in Mathematics B, further to this Maths C introduces students to the process of writing mathematical proofs. Maths C also builds on and deepens knowledge in topics covered in Maths B including functions and calculus and introduces students to new concepts of real and complex number systems, matrices, vectors, algebraic structures, combinatorics, conics, dynamics, and advanced periodic and exponential functions.

Maths C is a very specialised mathematics subject. It is a good choice for students wishing to follow a university pathway in the Science, Mathematics, Medical or Engineering fields.

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.

## Subject Requirements

Due to the rigorous content and higher order thinking required to complete Maths C it is essential that students have achieved at least a 'B' standard in year 10 Extension Mathematics. It is also a requirement that the student must also be studying Maths B.

It is a requirement of Maths C that all students have their own text book, exercise book, scientific calculator and stationary. 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

<b>Semester 1</b>	Matrices Real and complex number systems Vectors and applications Structures and patterns
<b>Semester 2</b>	Structures and patterns Matrices Vectors and applications Real and complex number systems Dynamics
<b>Semester 3</b>	Conics Matrices Calculus Vectors Structures and patterns Dynamics
<b>Semester 4</b>	Structures and patterns Calculus Conics

## Study Pathways

