MATHEMATICS

Mathematics Extension
10MEX

SUBJECT DESCRIPTION:

Mathematics Extension is offered to provide further extension for students who have completed (SEAL) accelerated maths classes in middle school or who are highly capable/advanced mathematics students. All SEAL students considering studying higher mathematics at tertiary level should undertake Extension Mathematics.

In this unit, students will study:

- Bivariate statistics
- Complex Numbers
- Vectors
- Matrices
- Algebra
- Networks
- CAS calculator use
- Variation
- Trigonometry
- Number and proof
- Calculus

VCE SUBJECT LINKS

General Maths

Maths Methods

Specialist Maths

THIS SUBJECT ENHANCES LEARNING IN:

Sciences like Physics, Chemistry, Accounting and any subject requiring knowledge of complex forms of algebra.

ASSESSMENT:

- Basic skills
- Application and problem solving
- Unit tests
- Assignments
- Exam

Mathematics Elective Pre-Calculus
10MAC

SUBJECT DESCRIPTION:

This is a semester-based elective subject offered to students who wish to study a Maths Science course at VCE and beyond (Science, Medicine, Engineering etc), as well as students who enjoy studying Mathematics. Students will be provided with the essential skills for study of higher levels of Mathematics at VCE and into various tertiary courses.

In this unit, students will study:

- Univariate and bivariate statistics
- Linear equations
- Functions and relations
- Exponential and logarithmic functions
- Differentiation
- Integration
- CAS calculator use

VCE SUBJECT LINKS

Maths Methods

Specialist Maths

THIS SUBJECT ENHANCES LEARNING IN:

Sciences like Physics, Chemistry, Accounting and any subject requiring knowledge of complex forms of algebra.

ASSESSMENT:

- Basic skills
- Application and problem solving
- Unit tests
- Assignments
- Exam