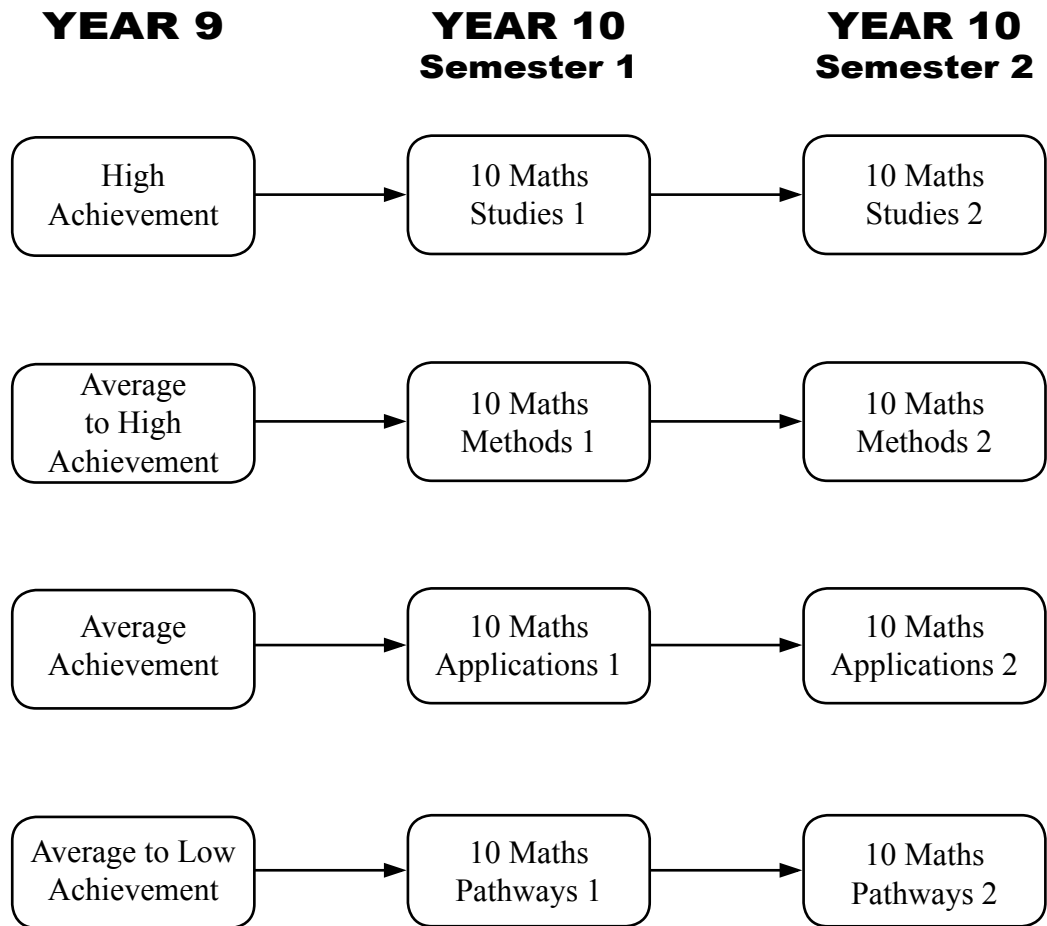



Mathematics



At the end of a semester, students may choose a different pathway.



Casuarina Senior College aims to provide an outstanding education and quality outcomes for all students through the provision of rich learning experiences and a varied curriculum designed to maximise student engagement.

Students are able to access all subjects without incurring tuition costs. A number of subjects also offer extended learning experiences which are optional and for which the College Council will seek the reimbursement of associated costs from parents of participating students. Examples include additional materials, excursions, etc. Indicative reimbursement costs for subjects containing extra-curricula activities are identified throughout the handbook by an asterisk (*).

For further information please contact the College on 8920 1211.

mathematics Year 10

Maths Studies 1

Subject Description

This is a high level mathematical course requiring a good understanding of algebraic processes. It is recommended for students who intend to study at university.

Content

- Number Systems
- Basic Algebra
- Coordinate Geometry
- Function Notation and Quadratic Functions

Assessment Components

- Tests
- Directed Investigation
- End of Semester Examination

Subject Length
1 x semester

Subject Offered
Semester 1

Maths Studies 2

Subject Description

This is a high level mathematical course requiring a good understanding of algebraic processes. It is recommended for students who intend to study at university.

Content

- Statistics
- Indices and Logarithms
- Trigonometry
- Deductive Geometry (Mensuration)

Assessment Components

- Tests
- Project
- End of Semester Examination

Subject Length
1 x semester

Subject Offered
Semester 2

Code
MTH011

*Nil

Prerequisite

Teacher recommendation from previous school.

Code
MTH012

*Nil

Prerequisite

Pass in 10 Maths Studies 1 Semester 1 and/or teacher recommendation from previous semester

mathematics

Year 10

Maths Methods 1

Subject Description

This is a medium to high level mathematical course requiring a sound understanding of algebraic processes. This course will not require the same depth of understanding for the 10 Maths Studies course. It is recommended for students who intend to study at university.

Content

- Number Systems
- Basic Algebra
- Statistics
- Indices

Assessment Components

- Tests
- Project
- End of Semester Exam

Subject Length
1 x semester

Subject Offered
Semester 1

Maths Methods 2

Subject Description

This is a medium to high level mathematical course requiring a sound understanding of algebraic processes. This course will not require the same depth of understanding for the 10 Maths Studies course. It is recommended for students who intend to study at university.

Content

- Logarithms and Exponentials
- Coordinate Geometry & Linear Functions
- Simultaneous Equations
- Quadratic Equations and Graphs

Assessment Components

- Tests
- Project
- End of Semester Exam

Subject Length
1 x semester

Subject Offered
Semester 2

Code
MTH021

*Nil

Prerequisite

Teacher recommendation from previous school.

Code
MTH022

*Nil

Prerequisite

Teacher recommendation from previous semester.

mathematics

Year 10

Code
MTH031

*Nil

Prerequisite
No prerequisite.

Maths Applications 1

Subject Description

This unit is a medium level mathematical course which will develop a sound understanding to the use of mathematics in the world around us. This unit prepares students for Pre Mathematical Applications at Stage 1.

Content

- Number
- Measurement
- Right-angled Triangles
- Financial Literacy

Assessment Components

- Tests
- Directed Investigation

Subject Length
1 x semester

Subject Offered
Semester 1

Code
MTH032

*Nil

Prerequisite
No prerequisite.

Maths Applications 2

Subject Description

This unit is a medium level mathematical course which will develop a sound understanding to the use of mathematics in the world around us. This unit prepares students for Pre Mathematical Applications at Stage 1.

Content

- Statistics
- Algebra
- Linear Graphs
- Space and Mensuration

Assessment Components

- Tests
- Directed Investigation

Subject Length
1 x semester

Subject Offered
Semester 2

mathematics

Year 10

Maths Pathways 1

Subject Description

This unit is intended to give students a very practical hands-on experience of the Maths areas covered.

Content

- Number Skills
- Measurement
- Statistics

Assessment Components

- Tests
- Project
- Directed Investigation

Subject Length

1 x semester

Subject Offered

Semester 1

Maths Pathways 2

Subject Description

This unit is intended to give students a very practical hands-on experience of the Maths areas covered.

Content

- Number Sense
- Money Matters
- Surveying
- Financial Literacy

Assessment Components

- Tests
- Directed Investigation
- Personal Interest Project

Subject Length

1 x semester

Subject Offered

Semester 2

Code
MTH041

*Nil

Prerequisite
Nil

Code
MTH042

*Nil

Prerequisite
Nil