



<b>DURATION OF SUBJECT</b>	FULL YEAR
<b>FINANCIAL COMMITMENT</b>	NIL

### COURSE CONTENT

UNIT 1	UNIT 2	UNIT 3	UNIT 4
<b>Measurement</b> Students investigate how to apply area formulas to find area of regular shapes and volume in prisms. Students apply their learning to real world problems.	<b>Geometry and Trigonometry</b> Students explore how similarity of triangles can describe the relationship between triangles. Students investigate Pythagoras theorem and trigonometric rules to solve real world problems.	<b>Algebra and Linear Functions</b> Students explore linear functions and the relationship between the graph and equation. Students extend their index laws understanding to apply these in algebraic situations.	<b>Data and Chance</b> Students explore real life data activities to understand how the distribution of larger data sets informs analysis. Student explore the probability of multiple events occurring and compare this to real life occurrences.
ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT
Exam	Exam	Exam	Assignment & Exam

### COURSE REQUIREMENTS

Students require an approved scientific calculator in this subject.

### CAREER PATHWAYS

- Mathematics helps us develop analytical and reasoning skills.
- Reasoning is the ability to think logically about a situation.
- Analytical and reasoning skills are valuable because they help us solve problems and look for solutions.
- Many future careers will require sound mathematical, analytical and reasoning skills.

### INTERNET LINKS

| <https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/>

### REAL PEOPLE TALKING ABOUT MATHEMATICS

In the following videos people talk about how maths has helped them with their jobs.

Mathematics in the NRL | <https://youtu.be/BilJ10URb1I>

Mathematics in Nursing | <https://youtu.be/w3vAj57UCwI>

Mathematics in Teaching | <https://youtu.be/LgEV11KqPAk>

