



SPECIALIST MATHEMATICS UNIT 3&4

Specialist Mathematics Units 3 and 4 consist of the areas of study: *Functions and Graphs*, *Algebra*, *Calculus*, *Vectors*, *Mechanics* and *Probability and statistics*.

SEMESTER ONE

Outcome	SAC
1. Define and explain key concepts and apply a range of related mathematical routines and procedures.	SAC 1: Investigation A mathematical investigation of a practical or theoretical context involving content from two or more areas of study, with three components of increasing complexity. Time: 5 periods Materials Allowed: CAS calculator, 2 A4 pages of notes
2. Apply mathematical processes in non-routine contexts, and analyse and discuss these applications of mathematics.	
3. Use technology to produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques.	

SEMESTER TWO

Outcome	SAC
1. Define and explain key concepts and apply a range of related mathematical routines and procedures.	SAC 2 Problem Solving/Modelling task involving Calculus Time: 3 periods Notes (Bound Reference) and CAS allowed SAC 3: Problem Solving/Modelling task involving Mechanics or Statistics Time 3 periods: 1 Double – Notes (Bound Reference) and CAS allowed 1 Single – Notes (Bound Reference) No CAS
2. Apply mathematical processes in non-routine contexts, and analyse and discuss these applications of mathematics.	
3. Use technology to produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques.	

<http://www.vcaa.vic.edu.au/Documents/vce/mathematics/MathematicsSD-2016.pdf>