



Specialist Mathematics Units 1 & 2

Unit 1 Outline: Unit 1 is focused on techniques and applications of mathematical derivation and proof. Areas of study covered include: Geometry, Measurement and Trigonometry, Arithmetic and Number, Logic and Algebra and Statistics.

SEMESTER ONE UNIT 1

Outcome	SAC/SAT
1. Define and explain key concepts and apply a range of related mathematical routines and procedures.	SAC 1: Number and Proof: Scientific Calc, no notes
2. Apply mathematical processes in non-routine contexts, and analyse and discuss these applications of mathematics.	SAC 2: Geometry in the plane: No tech, no notes SAC 3: Trigonometry: No tech, no notes
3. Use technology to produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques.	SAC 4: Probability and Statistics: CAS and 1xDS A4 notes
All SACs are 90 minutes under test conditions.	

SEMESTER TWO UNIT 2

Unit 2 Outline: Unit 2 is focused on applications of vectors and forces and non-linear relations. Areas of study covered include: Complex Numbers, Vectors, Graphs of non-linear relations, Statics and Kinematics.

Outcome	SAC/SAT
1. Define and explain key concepts and apply a range of related mathematical routines and procedures.	SAC 1: Complex Numbers: No tech, no notes
2. Apply mathematical processes in non-routine contexts, and analyse and discuss these applications of mathematics.	SAC 2: Non-linear graphs: No tech, no notes SAC 3: Vectors: No tech, no notes
3. Use technology to produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques.	SAC 4: Statics: CAS and 1xDS A4 notes SAC 5: Kinematics: Scientific Calc, 1xDS A4 notes
All SACs are 90 minutes under test conditions.	