



SAMPLE ASSESSMENT OUTLINE

MATHEMATICS SPECIALIST
ATAR YEAR 11

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Sample assessment outline

Mathematics Specialist – ATAR Year 11

Units 1 and 2

Assessment type	Assessment type weighting	Assessment task weighting	Week/s	Assessment description
Response	40%	5%	Week 4	Task 1: Test 1 – Vectors in the plane: Representing vectors in the plane by directed line segments (1.2.1 – 1.2.4), algebra of vectors in the plane (1.2.5 – 1.2.9)
		7%	Week 9	Task 3: Test 2 – Vectors in the plane: Algebra of vectors in the plane (1.2.10 – 1.2.14) Geometry: The nature of proof and circle properties, including proof and use (1.3.1 – 1.3.15)
		7%	Week 13	Task 4: Test 3 – Geometry: Geometric vectors in the plane (1.3.16 – 1.3.18) Combinatorics: Permutations, the inclusion-exclusion and the pigeon-hole principle (1.1.1 – 1.1.6)
		5%	Week 19	Task 7: Test 4 – Trigonometry (2.1.1 – 2.1.8)
		9%	Week 24	Task 9: Test 5 – Matrices (2.2.1 – 2.2.11)
		7%	Week 29	Task 11: Test 6 – Real and complex numbers (2.3.1 – 2.3.16)
Investigation	20%	6%	Week 6	Task 2: Select, adapt and apply models to investigate and solve practical problems Vectors in the plane: Algebra of vectors in the plane
		4%	Week 14	Task 5: Plan, research, conduct and communicate the findings of an investigation Combinatorics: Permutations and combinations
		4%	Week 20	Task 8: Select, adapt and apply models to investigate and solve practical problems Trigonometry: Model periodic motion using sine and cosine functions and understand the relevance of the period and amplitude of these functions in the model and reciprocal trigonometric functions
		6%	Week 28	Task 10: Plan, research, conduct and communicate the findings of an investigation Real and complex numbers: Complex numbers and the complex plane
Examination	40%	15%	Week 15	Task 6: Semester 1 examination – Section One: calculator-free (35%), Section Two: calculator-assumed (65%) Application of mathematical understanding and skills to analyse, interpret and respond to a variety of question types that require both open and closed responses based on Unit 1 content.
		25%	Week 30	Task 12: Semester 2 examination – Section One: calculator-free (35%), Section Two: calculator-assumed (65%) Application of mathematical understanding and skills to analyse, interpret and respond to a variety of question types that require both open and closed responses based on Unit 1 and Unit 2 content.
Total	100%	100%		