SAMPLE ASSESSMENT OUTLINE

MATHEMATICS METHODS
ATAR YEAR 12

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Sample assessment outline Mathematics Methods – ATAR Year 12 Unit 3 and Unit 4

Assessment type	Assessment type weighting	Assessment task weighting	When	Assessment	Syllabus content
Response	40%	6%	Semester 1 Week 5	Task 2: In-class test	Further differentiation and applications: exponential and trigonometric functions, differentiation rules, the second derivative and applications of differentiation
		8%	Semester 1 Week 10	Task 3: In-class test	Integrals: anti-differentiation, definite integrals and the Fundamental theorem, applications of integration
		7%	Semester 1 Week 13	Task 4: In-class test	Discrete random variables: general discrete random variables, Bernoulli and binomial distributions
		6%	Semester 2 Week 5	Task 7: In-class test	The logarithmic function: logarithmic functions, calculus of the natural logarithmic functions
		7%	Semester 2 Week 9	Task 8: In-class test	Continuous random variables and the normal distribution: general continuous random variables, normal distributions
		6%	Semester 2 Week 14	Task 10: Assignment with in-class validation	Interval estimates for proportions: random sampling, sample proportions, confidence intervals for proportions
Investigation	20%	6%	Semester 1 Week 3	Task 1: Select, adapt and apply models to investigate and solve practical problems	Further differentiation and applications: exponential and trigonometric functions
		6%	Semester 2 Week 3	Task 6: Select, adapt and apply models to investigate and solve practical problems	The logarithmic function: logarithmic functions
		8%	Semester 2 Week 13	Task 9: Plan, research, conduct and communicate the findings of an investigation	Interval estimates for proportions: random sampling and sample proportions
Examination	40%	15%	Semester 1 Week 15	Task 5: Semester 1 examination Two sections, Calculator-free (50 mins) and Calculator-assumed (100 mins)	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 3 content
		25%	Semester 2 Week 15	Task 11: Semester 2 examination Two sections, Calculator-free (50 mins) and Calculator-assumed (100 mins)	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 3 and Unit 4 content
Total	100%	100%			