



SAMPLE ASSESSMENT OUTLINE

MATHEMATICS APPLICATIONS
ATAR YEAR 12

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Sample assessment outline

Mathematics Applications – 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 6	Task 2: In-class test	Bivariate data analysis: identifying and describing associations, fitting a linear model to numerical data, association and causation
		6%	Semester 1 Week 9	Task 3: In-class test	Growth and decay in sequences: arithmetic sequences, geometric sequences, first-order linear recurrence relations.
		7%	Semester 1 Week 13	Task 4: In-class test	Graphs and networks: the definition of a graph and associated terminology, planar graphs, paths and cycles
		7%	Semester 2 Week 4	Task 6: In-class test	Time series analysis: describing, interpreting and analysing time series data
		7%	Semester 2 Week 9	Task 8: In-class test	Loans, investments and annuities: compound interest loans and investments, reducing balance loans, annuities and perpetuities
		7%	Semester 2 Week 14	Task 10: Assignment with in-class validation	Networks and decision mathematics: trees and minimum connector problems, project planning and scheduling using critical path analysis, flow networks
Investigation	20%	6%	Semester 1 Week 3	Task 1: Plan, research and communicate findings using the data investigation process	Bivariate data analysis: identifying and describing associations
		7%	Semester 2 Week 7	Task 7: Select, adapt and apply models to investigate and compare everyday situations	Loans, investments and annuities: compound interest loans and investments, reducing balance loans, annuities and perpetuities
		7%	Semester 2 Week 13	Task 9: Select, adapt and apply models to investigate an everyday situation	Networks and decision mathematics: assignment problems to represent practical situations
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%			