



## SAMPLE ASSESSMENT OUTLINE

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**MATHEMATICS APPLICATIONS**  
**ATAR YEAR 12**

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## **Acknowledgement of Country**

Kaya. The School Curriculum and Standards Authority (the Authority) acknowledges that our offices are on Whadjuk Noongar boodjar and that we deliver our services on the country of many traditional custodians and language groups throughout Western Australia. The Authority acknowledges the traditional custodians throughout Western Australia and their continuing connection to land, waters and community. We offer our respect to Elders past and present.

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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%	8%	Semester 1 Week 7	<b>Task 2:</b> In-class test	<b>Bivariate data analysis:</b> identifying and describing associations between categorical variables (3.1.2–3.1.5) <b>Growth and decay in sequences:</b> arithmetic sequences, geometric sequences (3.2.1–3.2.8)
		10%	Semester 1 Week 14	<b>Task 3:</b> In-class test	<b>Growth and decay in sequences:</b> Linear recurrence relations (3.2.9–3.2.11) <b>Graphs and networks:</b> the definition of a graph and associated terminology, planar graphs, paths and cycles (3.3.1–3.3.9)
		10%	Semester 2 Week 5	<b>Task 5:</b> In-class test	<b>Time series analysis:</b> describing, interpreting and analysing time series data (4.1.1–4.1.8)
		12%	Semester 2 Week 13	<b>Task 7:</b> In-class assignment (open book)	<b>Networks and decision mathematics:</b> trees and minimum connector problems, project planning and scheduling using critical path analysis, flow networks (4.3.1–4.3.9)
Investigation	20%	10%	Semester 1 Weeks 4–5	<b>Task 1:</b> Plan, research and communicate findings using the statistical investigation process	<b>Bivariate data analysis:</b> identifying and describing associations between numerical variables (3.1.1, 3.1.5–3.1.19)
		10%	Semester 2 Weeks 8–9	<b>Task 6:</b> Select, adapt and apply models to investigate and compare everyday situations	<b>Loans, investments and annuities:</b> compound interest loans and investments, reducing balance loans, annuities and perpetuities (4.2.1–4.2.7)
Examination	40%	15%	Semester 1 Week 15	<b>Task 4:</b> 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	<b>Task 8:</b> 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
<b>Total</b>	<b>100%</b>	<b>100%</b>			