**Sample Assessment Outline**

Mathematics Methods

ATAR Year 11

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Sample assessment outline

Mathematics Methods – ATAR Year 11

Unit 1 and Unit 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment type** | **Assessment Type weighting** | **Assessment**  **Task weighting** | **Week** | **Assessment task** |
| **Response** | 40% | 10% | Week 5 | **Task 1:** Test 1 – Counting and probability (1.1) and Lines and Linear Relationships (1.2.1 – 1.2.2) |
| 7% | Week 14 | **Task 3:** Test 2 – Functions and graphs (1.2.3 – 1.2.24) and Trigonometric functions (1.3) |
| 13% | Week 22 | **Task 5:** Test 3 – Exponential functions (2.1) and Arithmetic and geometric sequences and series (2.2) |
| 10% | Week 28 | **Task 7:** Test 4 – Computation and Properties of Derivatives, Applications of Derivatives (2.3.10 – 2.3.21) |
| **Investigation** | 20% | 10% | Weeks 9–10 | **Task 2:** Investigation 1 – Students use the mathematical thinking process and course-related knowledge from Functions and graphs (1.2) to plan, research, conduct and communicate the findings of an investigation |
| 10% | Week 24 | **Task 6:** Investigation 2 – Students use the mathematical thinking process and identify the underlying mathematics related to rates of change to investigate the concept of the derivative (2.3.1 – 2.3.9) |
| **Examination** | 40% | 15% | Week 15 | **Task 4: Semester 1 examination** – Section One: Calculator-free (35%), Section Two: Calculator-assumed (65%).  Question selection from Unit 1 content knowledge, skills and processes |
| 25% | Week 30 | **Task 8: Semester 2 examination** – Section One: Calculator-free (35%), Section Two: Calculator-assumed (65%).  Question selection from Unit 1 and Unit 2 content knowledge, skills and processes |
| **Total** | **100%** | **100%** |  |  |