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| Stage 2 Mathematical Methods  Alignment with Australian Curriculum Content Descriptions |

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| **Topic 1: Further Differentiation and Applications** | |
| Subtopic 1.1: Introductory Differential Calculus | ACMMM094 |
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| Subtopic 1.2: Differentiation Rules | ACMMM104 |
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|  | ACMMM106 |
| Subtopic 1.3: Exponential Functions | ACMMM098 |
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|  | ACMMM101 |
| Subtopic 1.4: Trigonometric Functions | ACMMM102 |
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| Subtopic 1.5: The Second Derivative | ACMMM108 |
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| **Topic 2: Discrete Random Variables** | |
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| Subtopic 2.2: The Bernoulli Distribution | ACMMM143 |
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| Subtopic 2.3: Repeated Bernoulli Trials and the Binomial Distribution | ACMMM147 |
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| **Topic 3: Integral Calculus** | |
| Subtopic 3.1: Anti-differentiation | ACMMM114 |
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| Subtopic 3.2: The Area under Curves | ACMMM124 |
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| Subtopic 3.3: Fundamental Theorem of Calculus | ACMMM129 |
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| Subtopic 3.4: Applications of Integration | ACMMM132 |
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| **Topic 4: Logarithmic Functions** | |
| Subtopic 4.1: Using Logarithms for Solving Exponential Equations | ACMMM151 |
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| Subtopic 4.2: Logarithmic Functions and their Graphs | ACMMM156 |
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| Subtopic 4.3: Calculus of Logarithmic Functions | ACMMM159 |
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| **Topic 5: Continuous Random Variables and the Normal Distribution** | |
| Subtopic 5.1: Continuous Random Variables | ACMMM164 |
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| Subtopic 5.2: Normal Distributions | ACMMM168 |
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| Subtopic 5.3: Sampling | ACMMM171 |
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| **Topic 6: Sampling and Confidence Intervals** | |
| Subtopic 6.1: Confidence Intervals for a Population Mean | ACMSM140 |
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| Subtopic 6.2: Population Proportions | ACMMM174 |
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| Subtopic 6.3: Confidence Intervals for a Population Proportion | ACMMM177 |
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