



## Higher Mathematics Course Content

1. Straight Line
2. Functions and Graphs
3. Differentiation
4. Trigonometry
5. Polynomials
6. Quadratic Theory
7. Integration
8. Addition/Double Angle Formulae
9. Circle
10. Wave Function
11. Further Calculus
12. Logarithmic/Exponential Functions

### **Prelim and Final Exam Course assessment structure**

#### **Higher**

<b>Component</b>	<b>Marks</b>	<b>Duration</b>
Question paper 1	55 marks	1 hour and 15 minutes
Question paper 2	65 marks	1 hour and 30 minutes

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#### **Question paper 1** (non-calculator) 55 marks.

This question paper allows candidates to demonstrate the application of mathematical skills, knowledge and understanding from across the course. Candidates must not use a calculator. This question paper gives candidates an opportunity to apply an understanding of the underlying processes involved in numerical, algebraic, geometric, trigonometric, calculus, and reasoning skills specified in the 'Skills, knowledge and understanding for the course assessment' section. This question paper has 55 marks out of a total of 120 marks for the course assessment. It consists of short-answer and extended-response questions.

**Question paper 2** (Calculator) 65 marks.

This question paper assesses mathematical skills. Candidates may use a calculator. This question paper gives candidates an opportunity to apply numerical, algebraic, geometric, trigonometric, calculus, and reasoning skills specified in the 'Skills, knowledge and understanding for the course assessment' section. Using a calculator can facilitate these skills and allow more opportunity for application and reasoning. Candidates typically use calculators where more complex calculations are required to solve problems. This question paper has 65 marks out of a total of 120 marks for the course assessment. It consists of short-answer and extended-response questions.