



Advanced Higher Mathematics Course Content

1. Partial Fractions
2. Differentiation
3. Integration
4. Differential Equations
5. Binomial Theorem
6. Complex Numbers
7. Sequences and Series
8. Proof by Induction
9. Properties of Functions
10. Applied Calculus
11. Matrices and Systems of Equations
12. Vectors
13. Further Complex Numbers
14. Number Theory
15. Further Proof

For session 2022-2023

We will not assess the following content in the question papers:

- ◆ finding the asymptotes to the graphs of rational functions
- ◆ investigating features of graphs and sketching graphs of functions
- ◆ calculating a vector product
- ◆ working with lines in three dimensions
- ◆ working with planes



Advanced Higher

Component	Marks	Duration
Question paper 1	35	1 hour
Question paper 2	65	2 hours

Question paper 1: (non-calculator) 35 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 numerical, algebraic, geometric, trigonometric, calculus, and reasoning skills specified in the 'Skills, knowledge and understanding for the course assessment' section. It consists of short-answer and extended-response questions.

Setting, conducting and marking the question paper

This question paper is set and marked by SQA, and conducted in centres under conditions specified for external examinations by SQA. Candidates have 1 hour to complete this question paper.

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. When solving problems, candidates typically use calculators to perform calculations that are more complex. It consists of short-answer and extended-response questions.

Setting, conducting and marking the question paper

This question paper is set and marked by SQA, and conducted in centres under conditions specified for external examinations by SQA. Candidates have 2 hours to complete this question paper. Specimen question papers for Advanced Higher courses are published on SQA's website. These illustrate the standard, structure and requirements of the question papers. The specimen papers also include marking instructions.