CAMBRIDGE

Introducing Cambridge International AS & A Level Subject

Mathematics 9709[1]

Why Choose This Syllabus?

Cambridge International AS & A Level Mathematics develops a set of transferable skills, including the skill of working with mathematical information, as well as the ability to think logically and independently, consider accuracy, model situations mathematically, analyse results and reflect on findings. Our approach in Cambridge International AS & A Level Mathematics supports the development of learners who are:

- **confident**, using and sharing information and ideas, and using mathematical techniques to solve problems. These skills build confidence and support work in other subject areas as well as in mathematics.
- **responsible**, through learning and applying skills which prepare them for future academic studies, helping them to become numerate members of society.
- **reflective**, through making connections between different branches of mathematics and considering the outcomes of mathematical problems and modelling.
- **innovative**, through solving both familiar and unfamiliar problems in different ways, selecting from a range of mathematical and problem-solving techniques.
- **engaged**.by the beauty and structure of mathematics, its patterns and its many applications to real life situations.

Syllabus Aims

The aims are to enable students to:

- develop their mathematical knowledge and skills in a way which encourages confidence and provides satisfaction and enjoyment
- develop an understanding of mathematical principles and an appreciation of mathematics as a logical and coherent subject
- acquire a range of mathematical skills, particularly those which will enable them to use applications of mathematics in the context of everyday situations and of other subjects they may be studying
- develop the ability to analyse problems logically
- recognise when and how a situation may be represented mathematically, identify and interpret relevant factors and select an appropriate mathematical method to solve the problem
- use mathematics as a means of communication with emphasis on the use of clear expression
- acquire the mathematical background necessary for further study in mathematics or related subjects.

Content Overview

Content section	Assessment component
Pure Mathematics 1	Paper 1
Pure Mathematics 2	Paper 2
Pure Mathematics 3	Paper 3
Mechanics	Paper 4
Probability & Statistics 1	Paper 5
Probability & Statistics 2	Paper 6

For details of each content and guidance on the component combinations required for AS Level and A Level Mathematics qualifications, please refer to the syllabus document stated below in the footnote.

Continued

1. This content is based on the 2028–2030 version of the Cambridge International AS & A Level Mathematics syllabus. For the latest updates and detailed information, please visit https://www.cambridgeinternational.org/programmes-and-qualifications/cambridge-international-as-and-a-level-mathematics-9709/

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Assessment Objective	Weighting in AS Level %	Weighting in A Level %
Knowledge and understanding	55	52
Application and communication	45	48
Total	100	100

Previous Study

We recommend that learners starting this course should have completed a course in mathematics equivalent to Cambridge IGCSE (Extended).

Guided Learning Hours

Each Cambridge International AS Level subject typically requires 180 guided learning hours. The full Cambridge International A Level subject typically requires 360 guided learning hours in total, including the 180 hours for AS Level. This is for guidance only.
The number of hours a learner needs to achieve the qualification may vary according to each school and the learners' previous experience of the subject.

Exam Timetable

Students can take exams in the June and November exam series.

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