



Getting ready to teach

Cambridge IGCSE™ Mathematics 0580



First assessment from 2025

We review our syllabuses regularly to make sure they continue to meet the needs of our schools.

To make it easier for teachers and students who use more than one syllabus, we have improved accessibility and clarity by considering our Cambridge Upper Secondary Mathematics suite as a whole.

In updating Cambridge IGCSE Mathematics (0580) and Cambridge IGCSE (9–1) Mathematics (0980), we have worked with experienced maths teachers and subject experts to make the qualifications well structured and easier to understand, while keeping the familiar features that teachers and schools value.

We have focused on the breadth and depth of the content to cover fundamental mathematical knowledge and preparing students for the demands of the next stage of learning, if they choose to progress to further study.

Changes to content

We have updated the content:

- Although there are no major changes to the content, we have updated the learning outcomes to align with other Cambridge Upper Secondary Mathematics qualifications.
- We have updated the Notes/Examples column to make the depth of teaching required and learning required clearer.
- We are using consistent learning outcomes where appropriate across Cambridge Upper Secondary Mathematics syllabuses to support teachers who deliver more than one course in the suite.



We have updated the aims and assessment objectives. The wording has been updated but the meaning is the same. The new syllabus includes details of how it helps students develop the Cambridge learner attributes – confident, responsible, reflective, innovative and engaged.



We have added:

- surds in Number (Extended only)
- exact trigonometric values in Trigonometry (Extended only)
- domain and range in functions (Extended only)
- $-\frac{1}{2}$ and $\frac{1}{2}$ in the list of values for n in graphs of functions of the form ax^n (Extended only).

(We have not added any new content to the Core assessment.)



We have removed:

- add and subtract vectors (Core only)
- multiply a vector by a scalar (Core only)
- proper subsets linear programming (Extended only)
- box-and-whisker plots (Extended only)
- congruence criteria (knowledge of congruence itself is still in the syllabus) (Extended only).

Changes to assessment

We have balanced the two papers at each tier:

- The duration, total number of marks, weighting and style are the same for the two papers at each tier.

We have introduced a non-calculator paper at each tier:

- Paper 1 (Core) and Paper 2 (Extended) will be non-calculator papers



Paper 1
(non-calculator)



Paper 3
(calculator)

| | | |
|--------------------------|---|---|
| Duration | 1 hour 30 mins | 1 hour 30 mins |
| Total marks | 80 marks | 80 marks |
| Item types | Structured and unstructured questions | Structured and unstructured questions |
| Other information | Calculator not allowed Candidates answer all questions 50% of total for Core | Calculator required Candidates answer all questions 50% of total for Core |

Paper 2
(non-calculator)

Paper 4
(calculator)

| | | |
|--------------------------|---|---|
| Duration | 2 hours | 2 hours |
| Total marks | 100 marks | 100 marks |
| Item types | Structured and unstructured questions | Structured and unstructured questions |
| Other information | Calculator not allowed Candidates answer all questions 50% of total for Extended | Calculator required Candidates answer all questions 50% of total for Extended |



How does this affect teaching?

- The teaching time is not affected by these changes.
- Teachers should review the additional guidance and notes information in the syllabus content.
- Teachers should check the updated Notes/ Examples column in the syllabus content.
- Learners will need to practise:
 - selecting the correct formula from the formula sheet and knowing when to use them
 - solving problems and showing their working without a calculator
 - working with a range of different question types across two equally balanced papers.

We have introduced a formula sheet for all papers:

- We will provide a formula sheet at the front of each question paper.
- There will be a formula sheet for Core papers and a formula sheet for Extended papers.
- The formula sheet will be the same for each series.



First assessment from 2025

What **support** will be available to help teachers deliver the updated course?

July 2022

Scheme of work

March 2023

Specimen paper answers

April 2023

Endorsed textbooks to support the revised syllabus

July 2023

Classroom teaching materials including a teacher guide

Early 2026, after first examination in 2025

Example Candidate Responses

These materials will be available through our **School Support Hub**, which also includes details of endorsed resources for this syllabus, and access to a subject forum.

Resource Plus

In the meantime, you can find high-quality videos, ready-made lesson plans and teaching materials to help you deliver engaging lessons and explain challenging topics to your learners through Resource Plus.

Previously available by subscription only, Resource Plus is now available to all Cambridge International Schools at no extra cost through our **School Support Hub**.

Learn more: www.cambridgeinternational.org/0580



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