Changes to content

We have:

• updated the wording of the learning objectives to align with other Cambridge Upper Secondary Mathematics qualifications
• updated the Notes/Examples column to make the depth of teaching and learning required clearer
• introduced a new section – Presentation of responses – which gives guidance on mathematical conventions to help students communicate clearly.

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

We have balanced the amount of content added with content removed (in terms of teaching time). The revised subject content reinforces the learning of fundamental mathematical topics and supports overall progression to the next level of study.

We have removed:

• Loci (whole sub-topic)
• Matrices (whole sub-topic)
• Proper subsets
• Increasing and decreasing a quantity by a given ratio
• Showing that two shapes are congruent (knowledge of congruence itself is still in the syllabus)
• Constructions of simple shapes and bisectors (construction of a triangle is still in the syllabus).

Most additions represent a formalisation or extension of skills already in the syllabus, rather than completely new material.
Changes to assessment

We have balanced the two papers:

The duration, total number of marks, weighting and style will be the same:

<table>
<thead>
<tr>
<th></th>
<th>Paper 1 (non-calculator)</th>
<th>Paper 2 (calculator)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Duration</strong></td>
<td>2 hours</td>
<td>2 hours</td>
</tr>
<tr>
<td><strong>Total marks</strong></td>
<td>100 marks</td>
<td>100 marks</td>
</tr>
<tr>
<td><strong>Item types</strong></td>
<td>Structured and unstructured questions</td>
<td>Structured and unstructured questions</td>
</tr>
<tr>
<td><strong>Other information</strong></td>
<td>Calculator not allowed Externally assessed AO1: 40–50% AO2: 50–60%</td>
<td>Calculator required Externally assessed AO1: 40–50% AO2: 50–60%</td>
</tr>
</tbody>
</table>

How does this affect teaching?

- The teaching time is not affected by these changes.
- Teachers need to update their scheme of work to reflect changes in content. They should look at the Notes/Example column in the syllabus for new detail.
- Teachers should become familiar with equally balanced papers and updated mark schemes.
- Learners will need to practise:
  - selecting the correct formula from the formula sheet and knowing when to use them
  - working with a range of different question types across Paper 1 and Paper 2
  - working with equally balanced papers.

We have introduced a formula sheet for all papers:

There will be a formula sheet included at the front of each question paper, which will be the same for each series.
What support will be available to help teachers deliver the updated course?

<table>
<thead>
<tr>
<th>Date</th>
<th>Resource</th>
</tr>
</thead>
<tbody>
<tr>
<td>July 2022</td>
<td>Scheme of work</td>
</tr>
<tr>
<td>September 2022</td>
<td>Syllabus</td>
</tr>
<tr>
<td>March 2023</td>
<td>Specimen paper answers</td>
</tr>
<tr>
<td>April 2023</td>
<td>Endorsed textbooks to support the revised syllabus</td>
</tr>
<tr>
<td>July 2023</td>
<td>Classroom teaching materials including a teacher guide</td>
</tr>
<tr>
<td>Early 2026, after first examination in 2025</td>
<td>Example Candidate Responses</td>
</tr>
</tbody>
</table>

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**

Resource Plus for Cambridge IGCSE™ Mathematics (0580) is already available through the School Support Hub. Designed to help you deliver engaging lessons and explain challenging topics, it has many resources you can use for Cambridge O Level Mathematics (Syllabus D) (4024).

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/olevel](http://www.cambridgeinternational.org/olevel)