

IGCSE MATHEMATICS 0580

Cambridge IGCSE Mathematics is accepted by universities and employers as proof of mathematical knowledge and understanding. Successful Cambridge IGCSE Mathematics candidates gain lifelong benefits, including:

- the development of their mathematical knowledge
- confidence, by developing a feel for numbers, patterns and relationships
- an ability to consider and solve problems and present and interpret results
- skills in communication and reasoning using mathematical concepts
- a solid foundation for further study.

Prior learning

We recommend that learners who are beginning this course should have previously studied an appropriate lower secondary mathematics programme.

Progression

Cambridge IGCSEs are general qualifications that enable learners to progress directly to employment or to proceed to further qualifications.

Candidates who are awarded grades A* to C in Cambridge IGCSE Mathematics Extended curriculum are well prepared to follow courses leading to Cambridge International AS and A Level Mathematics, or the equivalent.

There are a number of mathematics syllabuses at both Cambridge IGCSE and Cambridge International

AS and A Level offered by Cambridge.

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Candidates may follow either the Core curriculum or the Extended curriculum. Candidates aiming for grades 4 to 9 should follow the Extended curriculum.

All candidates will study the following topics:

- 1 Number
- 2 Algebra and graphs
- 3 Geometry
- 4 Mensuration
- 5 Co-ordinate geometry
- 6 Trigonometry
- 7 Matrices and transformations
- 8 Probability
- 9 Statistics

The study of mathematics offers opportunities for the use of ICT, particularly spreadsheets and graph-drawing packages. It is important to note that use or knowledge of ICT will **not** be assessed in the examination papers.



As well as demonstrating skill in the techniques listed in section 3, ‘Subject content’, candidates will be expected to apply them in the solution of problems and to make connections between different areas of mathematics.

The weightings in the assessment of the main topic areas of Mathematics are shown in the table below.

Components	Number%	Algebra%	Space and shape%	Statistics and probability%
Core (Papers 1, 3 and 5)	40–45	20–25	20–25	10–15
Extended (Papers 2, 4 and 6)	20–25	35–40	25–30	10–15