



Cambridge IGCSE Mathematics 0580

Curriculum Content

IGCSE Mathematics 0580 is a core subject at St. Mark's International School and all Year 9 students will be required to take this subject. It is a two-year course that covers important concepts in mathematics. Students may follow either the Core curriculum or the Extended curriculum. Students aiming for grades A* to C should follow the Extended curriculum.

Topic	Content
Number	Fractions, approximation, standard forms, ratio and proportions, percentages, speed-distance-time
Algebra and Graphs	Solve linear, quadratic and simultaneous equations, draw and interpret graphs of functions, indices, solving inequalities, linear programming.
Geometry	Spatial relationships in 2 and 3 dimensions, find angles
Mensuration	Areas of different shapes, circles, find volumes and surface area
Co-ordinate Geometry	Pythagoras' rule, symmetry, similarity, circle theorems, constructions and loci
Trigonometry	Right-angled triangles, scale drawing, 3-D problems, sine, cosine, tangent
Matrices	Matrix operation, inverse of matrix, matrix transformations
Statistics-Probability	Mean, median, mode, cumulative frequency, probability, exclusive and independent events, tree diagrams

Affiliations





Assessment

Cambridge IGCSE Mathematics is assessed via two components. All students take **two** written papers. Students who follow the Core curriculum take Papers 1 and 3 and are eligible for grades C to G. Students who follow the Extended curriculum take Papers 2 and 4 and are eligible for grades A* to E.

Component		Weighting
Paper 1 (Core) Short-answer questions based on the Core curriculum.	1 hour	35%
Paper 2 (Extended) Short-answer questions based on the Extended curriculum.	1 hour 30 minutes	35%
Paper 3 (Core) Structured questions based on the Core curriculum.	2 hours	65%
Paper 4 (Extended) Structured questions based on the Extended curriculum.	2 hours 30 minutes	65%

Affiliations

