



Mathematics Entrance Examination Guide

Application Period:

6 - 24 January 2025

Mathematics Entrance Examination

All **Year 8, Year 9, and Year 10** applicants must take the **Mathematics Entrance Examination**, which is conducted **online** via Zoom.

Note: Calculators are not permitted.

Practice Resources for Mathematics

Platforms like [Khan Academy](#) and [Transum Mathematics](#) offer free online learning and practice resources.

(i) Year 8 Applicants

- Cambridge Lower Secondary Mathematics Stage 7

Numbers	Geometry
<ul style="list-style-type: none">• Types of numbers• Comparing, ordering & operations• Factors & multiples, HCF & LCM• Integers• Fractions, decimals• Percentages including profit & loss, discount, percentage increase, decrease• Ratios & rates	<ul style="list-style-type: none">• Different types of angles - Vertically opposite angles, supplementary & complementary angles, linear pair, adjacent angles.• Triangles & properties• Quadrilaterals & properties• Area & perimeter of plane figures• Measurements & conversion of units
Algebra	Statistics
<ul style="list-style-type: none">• Combining like terms• Expansion & factorisation of expressions• Linear equations & applications	<ul style="list-style-type: none">• Calculate the mean, median, mode• Interpret graphs (bar graphs, pictographs, pie charts)• Simple probability

(i) Year 9 Applicants

- Cambridge Lower Secondary Mathematics Stage 7 & 8

Numbers	Geometry
<ul style="list-style-type: none">• Types of numbers• Comparing, ordering & operations• Fractions, decimals	<ul style="list-style-type: none">• Different types of angles - Vertically opposite angles, supplementary & complementary angles, linear pair, adjacent angles

<ul style="list-style-type: none"> • Percentages including profit & loss, discount, reverse percentages • Ratios • Indices & standard form 	<ul style="list-style-type: none"> • Triangles & properties • Quadrilaterals & properties • Polygons • Area & perimeter of plane figures • Area & volume of prisms and cylinder • Measurements & conversion of units • Coordinate geometry
Algebra	Statistics
<ul style="list-style-type: none"> • Expansion & factorisation of expressions • Algebraic fractions • Linear, simultaneous equations & formulae • Arithmetic & Geometric sequence 	<ul style="list-style-type: none"> • Calculate the mean, median, mode • Interpret graphs (pie charts, stem-and-leaf diagrams) • Probability

(i) Year 10 Applicants

- Cambridge Lower Secondary Mathematics Stage 7, 8, & 9

Numbers	Geometry
<ul style="list-style-type: none"> • Types of numbers • Comparing, ordering & operations • Upper & lower bounds, approximation & estimation • Percentages including profit & loss, discount • Ratios • Indices & standard form • Surds • Money, finance & time 	<ul style="list-style-type: none"> • Different types of angles - Vertically opposite angles, supplementary & complementary angles, linear pair, adjacent angles • Polygons • Similarity & congruence • Area & perimeter of plane figures • Area & volume of prisms and cylinder • Surface area & volume • Measurements & conversion of units • Coordinate geometry
Algebra	Statistics
<ul style="list-style-type: none"> • Expansion & factorisation of expressions • Algebraic fractions • Linear, simultaneous equations & formulae • Linear inequalities • Sequences & functions 	<ul style="list-style-type: none"> • Calculate the mean, median, mode • Interpret graphs (scatter diagrams, stem-and-leaf diagrams) • Probability of single event



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General Enquiries



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Admissions Enquiries