

# IGCSE Maths Foundation (EdExcel)

## 4MA1 Topics

(age guide 14 – 16)

**1-year course (age guide 13 – 16)**

<b>Autumn 1:</b>
Area and Perimeter
Algebra- simplify and expand
Rounding and estimation
Pythagoras Theorem
Circles
Factors and Multiples
Sequences- patterns and nth term
Angles

<b>Spring 1:</b>
Ratio and proportion including recipes, exchange rates, conversions and units
Averages
Fractions
Real-life and linear graphs
Volume and Surface Area
Algebra - expand and factorise
Algebra - simplifying and solving
Transformations

<b>Summer 1:</b>
Time calculations
Speed
Probability
Standard form
Percentages and interest
Congruent and Similar shapes
Algebra -substitution
Indices
Statistics- including scatter graphs, pictograms and two-way tables

Please note that the shared maths scheme of work is provisional and may be subject to change as the term progresses. While it provides an outline of the topics and progression planned for the class, we believe it is important to remain flexible and responsive to the needs of our students. As we assess their understanding and progress, we may adjust the pace, revisit certain areas, or introduce additional support or challenge to ensure appropriately supported learning. Our priority is to provide the best possible learning experience tailored to the needs of the cohort.

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In addition, the sequence of the scheme of work has been thoughtfully structured to reflect a logical progression essential in mathematics. Many mathematical concepts depend on secure prior knowledge, meaning some topics must be taught first to provide the foundation needed for more advanced ideas. This careful ordering ensures that students are not introduced to complex material without the necessary groundwork. Furthermore, the scheme is designed to regularly revisit previously taught content. This planned revisiting is key to deepening understanding, reinforcing retention, and developing students' confidence. Our approach prioritises long-term learning and conceptual clarity over short-term memorisation.