

GCSE Maths

Higher Paper (EdExcel) Topics

1-year course (age guide 14 – 16)

Autumn 1:
Algebra - sequences
Indices
Standard Form
Volume
Quadratics - expand and factorise
Simultaneous equations - linear only
Pythagoras and basic trigonometry
Sector Area and Arc length
Constructions and loci

Spring 1:
Surds
Venn diagrams
Percentages and Compound interest
Circle theorems
Recurring decimals
Histograms, Cumulative frequency graphs, box plots
Frequency polygons, averages from a table
Stem-and-leaf diagrams, box plots
Bounds

Summer 1:
Sine, cosine rules and the area of any triangle
Vectors
Functions
Angles in polygons and parallel lines
Probability trees and Venn diagrams
Compound measures: density, SDT
Inequalities
Similar shapes

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.