



Mathematics (Year 9)

The identified key concepts are taught for depth both at procedural knowledge level but more importantly the application of these key skills

Term 3

Formal assessment 2 feedback will be given and supported through bespoke intervention post assessment and inform further retrieval opportunities.

Class work will be supported throughout by homework tasks, targeting both current topics being studied and retrieval opportunities from Year 7 and 8.

Similarity

Similar shapes and congruence

Algebraic Representation

Quadratic graphs, other graphs; inequality regions

Transformations

Enlargement, Rotation, Reflection and Translation

Assessment 2

Probability

Relative frequency, expected outcomes; independent events

Pythagoras' Theorem & Trigonometry

Rates

Speed; distance-time graphs; density; flow problems

Blocks studied in Year 8 are the key concepts identified for a smooth key stage transition as we prepare for GCSE, as well as building upon the knowledge developed in Year 7 and 8.

Term 2

Misconceptions from assessment 1 will inform part of retrieval work to further strengthen knowledge and skills

Numbers

Recap directed number, HCF & LCM, fractions and standard form

Using Percentages

Reverse percentage problems, extending with repeated percentage

Advanced Algebra

Quadratics: Expanding, Factorising and Completing the Square

Maths & Money

Bank statements, interest, tax, exchange rates

Deduction

Chains of reasoning, angle problems with algebra

Solving Ratio & Proportion Problems

Direct and inverse; best buys; ratio and algebra

Formal assessment 1 feedback will be given and supported through bespoke intervention post assessment.

Flashback opportunities will further support the development of students' literacy base.

Forming & Solving Equations

Unknowns on both sides; change the subject

Assesment 1

Constructions & Congruency

Loci and bisectors; congruent triangles

Three-Dimensional Shapes

Plans and elevations; surface area & volume

Advanced Algebra

Quadratics: Expanding, Factorising and Completing the Square

Straight Line Graphs

Gradients & y-intercepts; real-life graphs

Forming & Solving Equations

Unknowns on both sides; change the subject

At the end of each block, students will complete a summative assessment to check knowledge and understanding, with the teacher providing opportunities to secure knowledge and understanding following these assessments.

Term 1

Flashback opportunities will inform part of retrieval work to further strengthen procedural knowledge base from Year 7 and 8.