

MATHS

GCSE Maths Higher

Curriculum content

Half term	Year 9	Year 10	Year 11
Autumn 1	Basic Number, Factors and Multiples Rounding Basic Percentages Calculating with Percentages Fractions and Decimals	Exam preparation for Unit 1 exam Pythagoras and Basic Trigonometry Constructions and Loci	Consolidate and stretch topics from year 9 & 10 including review from recent exam past papers
Autumn 2	Ratio and Proportion Basic Algebra Review Sequences Equations Indices Surds Standard Form	Perimeter and Area Circumference and Area Volume Angles, Scale Diagrams and Bearing Properties of Polygon	Consolidate and stretch topics from year 9 & 10 including review from recent exam past papers
Spring 1	Quadratics, re-arranging formulae and identities Numerical Methods Co-ordinates and Linear Graphs Real Life Graphs Further Equations and Graphs	Circle Theorems Direct and Inverse proportion Growth and decay 2d representation of 3d shapes Congruence and Similarity	Consolidate and stretch topics from year 9 & 10 including review from recent exam past papers
Spring 2	Further Equations and Graphs Sketching Graphs Simultaneous Equations Inequalities Mock Exam Preparation	Measure Transformations Sine and Cosine Rules Transforming Functions	Consolidate and stretch topics from year 9 & 10 including review from recent exam past papers
Summer 1	Problem Solving Scatter Graphs Statistical Measures	Vectors Algebraic Fractions Gradients and Rates of Change Pre Calculus and Area Under a Curve	Consolidate and stretch topics from year 9 & 10 including review from recent exam past papers
Summer 2	Collecting and Representing Data Basic Probability Probability Money Matters	Mock exam preparation Review topics highlighted from mock exams Problem Solving Money Matters	Consolidate and stretch topics from year 9 & 10 including review from recent exam past papers

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Skills

Courses based on this specification in Maths should be able to

- Develop fluent knowledge, skills and understanding of mathematical concepts and methods
- Acquire, Select and Apply mathematical techniques to solve problems
- Reason mathematically, make deductions and inferences and draw conclusions
- Comprehend, Interpret and Communicate mathematical information in a variety of forms appropriate to the information in context
- Recall, select and apply mathematical formula

Assessment

Internal assessment takes place through the use of an APP at the end of every topic. This works out at approximately three APPs per half-term. From these students self-select areas for improvement and complete a MyMaths based homework on this. Every term students sit a teacher assessed half-termly test. At the end of year 9 students sit a summative Unit 2 test covering the topics of Number and Algebra. Early in Year 10 students sit a Unit 1 test which covers Data handling and number. By the end of year 10 students are ready to sit a full linear paper, non-calculator, which they do as part of the school's mock exam week. Throughout year 11 students regularly sit past linear papers including a January mock exam.