



Maths To understand mathematical concepts, develop fluency through practice, and apply this knowledge creatively to solve problems and make connections.			
Key Stage 3 Long-Term Plan	Year 7	Year 8	Year 9
Autumn 1	Calculator skills, Sequences, Algebraic notation, Expressions & equations, Place value, ordering & rounding,	Calculator skills, Ratio, Proportion & scale, Algebraic manipulations	Calculator skills, Properties of number, Percentages, Area & volume, Fractions
Autumn 1 Assessment:	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding
Autumn 2	Four operations, Averages & range, Rounding & estimating	Multiply & divide fractions, symmetry, Area, volume & density	Equations, inequalities & formulae, Rates, Standard form
Autumn 2 Assessment:	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used

	to monitor students' understanding	to monitor students' understanding	to monitor students' understanding
Spring 1	Calculator skills, Graphing data, Fractions, decimals & percentages,	Calculator skills, Equations,& inequalities, Percentages	Calculator skills, Maths & money, Straight line graphs, HA students Eureka Day (TBC)
Spring 1 Assessment:	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	27/1/27 Intermediate UKMC (HA students) Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding
Spring 2	Directed numbers, Fractions & percentages of amounts	Indices, Standard form, Interpret & represent data	Ratio & proportion, Constructions & congruency, Algebraic manipulation
Spring 2 Assessment:	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding
Summer 1	Calculator skills, Perimeter & area, Speed, distance, time, Properties of	Angles in a polygon, Tables & probability	Calculator skills, Similarity, Pythagoras theorem, Non linear

	number		graphs
Summer 1 Assessment:	5/5/27 Junior UKMC Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	5/5/27 Junior UKMC Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding
Summer 2	Add & subtract fractions, Angles in a polygon	Circles, Graphs & charts, sequences	Sets & probability, Transformations, Algebraic manipulation, Pythagoras/Trigonometry(HA)
Summer 2 Assessment:	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding
What will a student know by the end of each	Year 7 Students will be able to apply their mathematical knowledge to solve simple problems, work	Students will be able to apply mathematical knowledge to increasingly complex problems, work independently, use subject-	Students will be able to confidently apply mathematical knowledge to unfamiliar and challenging problems, work independently with

year? Why?	independently, use key mathematical vocabulary correctly, explain their reasoning, and clearly show their workings. Why? This provides a strong foundation in mathematical fluency and communication, helping students develop confidence, independence, and good mathematical habits that will support future learning.	specific vocabulary accurately, justify their methods and reasoning, and present clear, logical workings. Why? This enables students to deepen their understanding of mathematical concepts, make links between topics, and develop the analytical skills needed to tackle more challenging problems.	resilience, communicate using precise mathematical vocabulary, evaluate and explain their reasoning, and present accurate and efficient methods. Why? This prepares students for Key Stage 4 by developing mathematical mastery, critical thinking, and problem-solving skills, ensuring they can apply mathematics confidently in both academic and real-world contexts.
Extra-Curricular Opportunities: UKMC, Parallel Academy, Maths competitions (SAA and Trust), external visitors (Barclays)			



Maths To understand mathematical concepts, develop fluency through practice, and apply this knowledge creatively to solve problems and make connections.		
Key Stage 4 Long-Term Plan	Year 10	Year 11
Autumn 1	Calculator skills, Manipulating algebra, Equations, inequalities & formulae, Quadratic expressions & equations, Percentages	Calculator skills, Ratio & proportion, Area & volume, Similarity & sequences, Standard form
Autumn 1 Assessment:	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding. Completion of past paper is monitored
Autumn 2	Ratio & scale, Work with fractions, Non calculator methods, rounding	Calculator skills, Working with circles, Probability, Functions & graphs
Autumn 2 Assessment:	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding Completion of past paper is monitored
Spring 1	Calculator skills, Straight line graphs, Probability, Area,	Calculator skills, Rates, Angles, bearings & trig

	perimeter & volume	
Spring 1 Assessment:	HA students :Eureka Day (TBC) 27/1/27 Intermediate UKMC (HA students) Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	27/1/27 Intermediate UKMC (HA students) Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding Completion of past paper is monitored
Spring 2	Interpret & represent data, Non linear graphs	Constructions & loci, Transformations
Spring 1 Assessment:	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books. Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding Completion of past paper is monitored
Summer 1	Calculator skills, Angles, Graphs & diagrams, Vectors, Factors & powers	Revision
Summer 1 Assessment:	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books.	Students' progress will be assessed through short retrieval activities, in-class discussion, unit tests and ongoing monitoring of their work in books.

	Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding	Completion of Sparx Maths homework is a retrieval activity used to monitor students' understanding Completion of past paper is monitored
Summer 2	Pythagoras & trigonometry, Algebra & simultaneous equations	Revision
Summer 2 Assessment:	End of Year Assessment	GCSEs
What will a student know by the end of each year? Why?	Students will be able to: Apply their knowledge to a range of GCSE-style problem-solving tasks. Work independently and demonstrate resilience when tackling challenging questions. Use and understand the correct mathematical vocabulary. Explain and justify their answers and reasoning. Show clear, accurate, and logical workings. Why? These skills enable students to deepen their mathematical understanding, develop confidence in applying techniques to unfamiliar situations, and build the knowledge and exam skills required for GCSE success.	Students will be able to: Apply their knowledge confidently to complex and unfamiliar problem-solving tasks. Work independently and select appropriate methods to solve problems efficiently. Use and understand precise mathematical vocabulary. Explain, justify, and evaluate their answers and reasoning. Present clear, accurate, and well-structured workings. Why? These skills ensure students are fully prepared to successfully complete their Maths GCSE examination and provide a strong foundation for further study, training, and everyday life.
Extra-Curricular Opportunities UKMC, Parallel Academy, Maths competitions (SAA and Trust), external visitors (Barclays), Eureka day		

