



Maths Crossover - Curriculum Learning Journey

Knowledge & Concepts increase students depth/ challenge and build on previous learning where topics are revisited throughout their learning journey

		Year 7	Year 8	Year 9 Crossover Year 1	Year 10 Crossover Year 2	Year 11 Consolidation
Half Term 1	Topics	Algebraic Thinking	Fractional Thinking Lines and Angles	Statistics Number	Algebra Geometry	Statistics Algebra Geometry & Measuring Revision for MOCK 1 Number
	Knowledge	Sequences Understand and use algebraic notation Equality and Equivalence	Addition and subtraction of fractions Constructing, measuring and using geometric notation	Two-way Tables Frequency Trees Venn Diagrams Using a Calculator Rounding and Error interval Estimation Multiples and Factors	Straight line Graphs Quadratic and Cubic Graphs Coordinate geometry	Venn Diagrams / Probability Straight Line? Quadratic Graphs Pythagoras/ Trigonometry Plans/ Elevations/ Bearings MOCK Paper 1 Ratio and Proportion
Half Term 2	Topics	Place Value and Proportion Applications Of Number	Reasoning with Number	Number	Compound Measures Algebra Ratio Geometry and Measure	Gap Analyses Statistics Number Geometry MOCK
	Knowledge	Place value and ordering integers and decimals Fraction, decimal and percentage equivalence Solving problems with addition and subtraction	Develop geometric reasoning Developing number sense Sets and probability	Prime factor Decomposition Fractions Percentage of Amounts Interest Growth and Decay Reverse Percentage	Speed/Distance/Time & Compound measures Real Life Graphs Ratio Recipes: Exchange Rate Best Value Pythagoras & Trigonometry	Topics from MOCK Paper 1 Stem and Leaf diagram Frequency Polygons Standard Form Angles in Polygons Revision for MOCK exam
Half Term 3	Topics	Applications Of Number Directed Numbers	Reasoning with Number Proportional Reasoning	Number Algebra	Geometry and Measure	GAP Analysis from Mock Exams 1
	Knowledge	Solving problems with addition and subtraction (MYA assessment) Solving problems with multiplication and division Fractions and percentages of amounts Directed numbers	Prime numbers and proof (MYA assessment) Ratio and scale Multiplicative change	Index Law Standard Form Sequences Expanding and Simplifying MYA Assessment	Plans and Elevations Constructions Circles, Arcs and Sectors	Topics from MOCK
Half Term 4	Topics	Directed Numbers Fractional Thinking Lines and Angles	Proportional Reasoning Representations	Algebra	Geometry and Measure	Mock Exams 2 GAP Analysis



	Knowledge	Operations and equations with directed numbers Addition and subtraction of fractions Constructing, measuring and using geometric notation	Multiplying and dividing fractions Working in the cartesian plane Representing Data	Factorisation Solving Equations Forming and solving Equations Subject of Simultaneous equations	Surface Area and Volume Similarity and Congruence Transformations	Topics from Mock Exam 2
Half Term 5	Topics	Lines and Angles Reasoning with Number	Representations Algebraic Techniques	Algebra Geometry and Measure	Geometry Data	Revision For Exam
	Knowledge	Constructing, measuring and using geometric notation Develop geometric reasoning Developing number sense	Representing Data Tables and probability Brackets, equations and identities	Inequalities Alternate and Corresponding Angles Bearings	Transformations Vectors Averages	
Half Term 6	Topics	Reasoning with Number	Algebraic Techniques Developing Number	End Of Year Exams and GAP analysis	Data Probability	
	Knowledge	Sets and probability Developing number sense Developing number sense	Sequences Indices Fraction and percentages	Interior and Exterior Angles EOY assessment	Averages from a Table Frequency Diagrams Scatter graphs Time Series Tree Diagrams Statistics and Sampling	