

Maths Year 9 Higher Curriculum Map



YEAR 9	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Curriculum Content	<p><u>Composite Number</u> N7 Prime factorisation</p> <p><u>Composite Algebra</u> A4 Linear inequalities A2 Sequences A3 Functions and graphs A3 Plotting quadratic and cubic graphs</p> <p><u>Composite Geometry and Measure</u> GM2 Polygons GM4 Loci</p> <p><u>Composite Statistics and Probability</u> SP1 Statistical measures</p>	<p><u>Composite Number</u> N3 Accuracy</p> <p><u>Composite Algebra</u> A4 Solving Equations</p> <p><u>Composite Geometry and Measure</u> GM6 Prisms GM1 Compound units</p> <p><u>Composite Number</u> N6 Ratio and Proportion</p>	<p><u>Composite Statistics and Probability</u> SP4 Probability</p> <p><u>Composite Number</u> N6 Proportion</p> <p><u>Composite Algebra</u> A1 Using Formulae</p> <p><u>Composite Geometry and Measure</u> GM5 Similarity GM5 Trigonometry</p>	<p><u>Composite Number</u> N7 Indices N2 Standard form</p> <p><u>Composite Geometry and Measure</u> GM5 Rotations</p> <p><u>Composite Algebra</u> A3 Quadratic Graphs A5 Working with Quadratics</p>	<p><u>Composite Number</u> N5 Percentages</p> <p><u>Composite Algebra</u> A2 Sequences</p> <p><u>Composite Geometry and Measure</u> GM2 Congruence GM5 Trigonometry</p> <p><u>Composite Statistics and Probability</u> SP2 Using lines of best fit</p>	<p><u>Composite Geometry and Measure</u> GM6 Plans and Elevations GM1 Compound Units GM3 Arcs and sectors</p> <p><u>Composite Algebra</u> A3 Plotting graphs A1 Identities</p>
Prior knowledge and skills (from previous year / key stage)	Knowledge and understanding of the solving equations, substitution, basic angles and averages	Knowledge and basic algebra, solving equations, substitution, understanding of 2d shapes, rounding and significant figures	Knowledge of basic probability, expanding brackets and proportion	Knowledge of using index form, place value, expanding double brackets	Knowledge of basic percentages, linear sequences, types of triangles, plotting co-ordinates	Knowledge of rearranging equations and manipulating algebra, substitution, circles
Core Knowledge Organiser content	Definitions of keywords, formulae and concepts met within polygons, interquartile range and quadratic sequences with accompanying MathsWatch clips, to support independent learning	Definitions of keywords, formulae and concepts met within simultaneous equations, proportion and accuracy accompanying MathsWatch clips, to support independent learning	Definitions of keywords, formulae and concepts met inverse proportion, trigonometry and probability with accompanying MathsWatch clips, to support independent learning	Definitions of keywords, formulae and concepts met within indices, standard form and quadratics with accompanying MathsWatch clips, to support independent learning	Definitions of keywords, formulae and concepts met within geometric progression, congruence and compound percentages with accompanying MathsWatch clips, to support independent learning	Definitions of keywords, formulae and concepts met within compound units, arcs and sectors and identities with accompanying MathsWatch clips, to support independent learning

Assessment Objectives	To be able to demonstrate use prime factorisation and solve problems with this Show and demonstrate ability to work with angles in polygons	To be able to show understanding of 3 dimensional shapes and problems involving prisms	To be confident working with estimating probability Show demonstrate ability manipulating and working with complex algebra	To be able of demonstrate understanding of indices index laws and working with standard form	To be able to work with and solve problems involving geometric progression To use and interpret scatter diagrams and use lines of best fit	To be confident working with compound units, density speed distance and time
Vocabulary / Key Subject Terminology	Prime Factor, Factor Tree, Quadratic, Cubic, Inequality, upper quartile lower quartile median	Upper Bound, Lower Bound, solve, eliminate, substitute, prism, cross sectional area, Proportion	probability, mutually exclusive, conditional, Inverse proportion, similar shapes, trigonometry	Index, Power, base, rotate, centre of rotation, quadratic, root, solve factorise	Compound, Depreciation, Geometric, rate, congruence, median, similar	Enlarge, scale factor, plan view, front elevation, density, arc, chord, sector segment, identity, reciprocal, polynomial
Assessment 1	<u>BAM: Reviewing Skills Assessment</u> - Topic based assessments using review N7.5 plus additional exam style question.	<u>BAM: Reviewing Skills Assessment</u> - Topic based assessments using review GM6.5.	<u>BAM: Reviewing Skills Assessment</u> - Topic based assessments using review SP4.4 plus additional exam style question.	<u>BAM: Reviewing Skills Assessment</u> - Topic based assessments using review N7.6 and N2.7 plus additional exam style question.	<u>BAM: Reviewing Skills Assessment</u> - Topic based assessments using review A2.6 plus additional exam style question.	<u>BAM: Reviewing Skills Assessment</u> - Topic based assessments using review GM1.11 plus additional exam style question.
Assessment 2	<u>BAM: Reviewing Skills Assessment</u> - Topic based assessments using review GM2.8 plus additional exam style question.	<u>Christmas Assessment:</u> Full synoptic assessment.	<u>BAM: Reviewing Skills Assessment</u> - Topic based assessments using review A1.10.	<u>Easter Assessment:</u> Full synoptic assessment.	<u>BAM: Reviewing Skills Assessment</u> - Topic based assessments using review SP2.7 plus additional exam style question.	<u>Summer Assessment:</u> Full synoptic assessment
Cross Curricular Links with other Faculties	LOCI – Constructions- DT Grouped Data – Geography	Compound units - Science Proportionality - science	Inverse Proportion – Science Similarity – Technical drawing DT	Statistical Diagrams- Geography Standard form -Science	Compound interest – Business Studies Lines of Best Fit- Geography	Plans and elevation – Technical drawing DT Compound Units - Science
Extra-Curricular Offer	KS3 UKMT Problem Solving Club “Problem of the week”	KS3 UKMT Problem Solving Club “Problem of the week”	KS3 UKMT Problem Solving Club “Problem of the week”	KS3 UKMT Problem Solving Club “Problem of the week”	KS3 UKMT Problem Solving Club “Problem of the week”	KS3 UKMT Problem Solving Club “Problem of the week”
Time Allocation	7 weeks 4 lessons per week	7 weeks 4 lessons per week	6 weeks 4 lesson per week	5 weeks 4 lessons per week	6 weeks 4 lessons per week	7 weeks 4 lessons per week