Maths Dept. Curriculum Map

YEAR	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
7	Sequences Understand and use algebraic notation Equality and equivalence	Place value, ordering integers and decimals Fraction, decimal and percentages equivalence	Solving problems with addition, subtraction, multiplication, division Fractions and percentages of amounts	Directed number Addition and subtraction of fractions	Constructing, measuring and using geometric notation Developing geometric reasoning	Developing number sense Sets and probability Prime numbers and proof
8	Ratio and scale Multiplicative change Multiplying and dividing fractions	Working in the Cartesian plane Representing data Tables and probability	Algebraic techniques – brackets, equations, inequalities Sequences Indices	Fractions and percentages Standard index form Number sense	Angles in parallel lines and polygons Area of trapezia and circles Line symmetry and reflection	The data handling cycle Measures of location
9	**NUMBER** 1.1 Calculations, number problems and reasoning 1.2 Place value 1.3 Decimal numbers 1.4 Factors and multiples 1.5 Squares, cubes and roots 1.6 Prime factors, HCF & LCM 1.7 Zero, negative and fractional indices (H) 1.8 Powers of 10 and standard form (H) 1.9 Surds (H)	**ALGEBRA** 2.1 Simplifying expressions 2.2 Algebraic indices 2.3 Substitution 2.4 Formulae 2.5 Expanding and factorising 2.6 Equations 2.7 Linear sequences 2.8 Introducing inequalities 2.9 Non-linear sequences (H) 2.10 More expanding and factorising (H)	**INTERPRETING & REPRESENTING DATA** 3.1 Frequency tables 3.2 Two-way tables 3.3 Representing data 3.4 Stem and leaf diagrams 3.5 Pie charts 3.6 Scatter graphs 3.7 Line of best fit 3.8 Averages and range (H) **FRACTIONS, RATIOS & PERCENTAGES** 4.1 Working with fractions 4.2 Multiplying fractions 4.3 Dividing fractions 4.4 Fractions, decimals & percentages 4.5 Ratios 4.6 Ratio and proportion 4.7 Percentages	**FRACTIONS, RATIOS & PERCENTAGES** 4.1 Working with fractions 4.2 Multiplying fractions 4.3 Dividing fractions 4.4 Fractions, decimals & percentages 4.5 Ratios 4.6 Ratio and proportion 4.7 Percentages **ANGLES & TRIGONOMETRY** 5.1 Angle facts 5.2 Angles in parallel lines 5.3 Interior angles of a polygon 5.4 Exterior angles of a polygon 5.5,6 Pythagoras' theorem 5.7 Trigonometry 1 (H)	**PERIMETER, AREA & VOLUME** 6.1 Rectangles, parallelograms and triangles 6.2 Trapezia and changing units 6.3 Area of compound shapes 6.4 Surface area of 3D solids 6.5 Volume of prisms 6.6 Circles 6.7 Sectors of circles (H) 6.7 Cylinders and spheres (H) 6.8 Pyramids and cones (H) **TRANSFORMATION & CONSTRUCTION** 7.1 3D solids 7.2 Reflection and rotation 7.3 Enlargement (H) 7.4 Translations and combinations of transformations	**TRANSFORMATION & CONSTRUCTION** 7.1 3D solids 7.2 Reflection and rotation 7.3 Enlargement (H) 7.4 Translations and combinations of transformations 7.5 Bearings and scale drawings (H) 7.6 Constructions 1 7.7 Constructions 2 7.8 Loci (H) **JEPTEMBER TO SPLIT INTO FOUNDATION AND HIGHER CLASSES** **Unit 8F - Averages and Range** **Unit 8H - Graphs**

Maths Dept. Curriculum Map

					7.5 Bearings and scale drawings (H) 7.6 Constructions 1 7.7 Constructions 2 7.8 Loci (H)	
10 (current)	Area, Perimeter & Volume F Graphs F Transformation & Constructions H Equations & Inequalities H	Graphs F Transformations F Equations & Inequalities H Probability H	Ratio & Proportion F Right-Angled Triangles F Multiplicative Reasoning H Similarity & Congruency H	Right-Angled Triangles F Probability F Similarity & Congruency H Trigonometry H	Multiplicative Reasoning F Constructions, Loci & Bearing F Statistics H Equations & Graphs H	Constructions, Loci & Bearing F Quadratic Equations & Graphs F Equations & Graphs H Circle Theorems H
11 (Current)	Perimeter, Area & Volume F Congruency, Similarity & Volume F Algebra H Vectors & Geometric Proof H	Congruency, Similarity & Volume F Algebra F Re-cap/revision Proportion & Graphs H Re-cap/revision	EXAM REVISION	EXAM REVISION	FORMAL EXAMS	FORMAL EXAMS
12	Differentiation Integration Indices and surds Quadratic functions Triangle geometry	Introduction to kinematics Polynomials Coordinate geometry Vectors Working with data	Motion with constant acceleration Using graphs Logarithms Binomial expansion Probability	Applications of differentiation Force and motion Exponential models Statistical hypothesis testing	Newton's third law Trigonometric functions and equations Proof and mathematical communication	Further proof Calculus of exponential and trigonometric functions Rational functions and partial fractions General binomial expansion
13	Further transformations of graphs Further differentiation Applications of vectors Functions Conditional probability The normal distribution	Projectiles Further integration techniques Radian measure Further trigonometry Further hypothesis testing	Sequences and series Differential equations Forces in context Numerical integration Further applications of calculus	Moments Numerical solutions of equations EXAM REVISION	FORMAL EXAMS	FORMAL EXAMS