Stanborough

Curriculum Map
Year 8 Maths Accelerated

Time Period	Autumn Term	Spring Term	Summer Term
Content	• Factors, Multiples, Powers and Roots and Negative Numbers • Parallel Lines, Transformations and Constructions • Probability • Algebraic Expressions and Laws of Indices • Percentages • Area and Volume • Standard Form	• Linear and non-Linear Graphs • Use of Ratios to compare length, area and volume • Map Scales • Interpreting Data • Fractions and Decimals • Direct and Inverse Proportion • Circles • Congruent shapes • Revision of key topics from Autumn Term	• Equations and formulae • Comparing data • Revision of key topics from Spring Term
Skills	**Number** multiplying and dividing with negatives, HCF, LCM, powers and roots, prime factors calculating percentages, percentages increase/decrease, percentage change (use of multipliers) powers of 10, significant figures, standard form with large numbers, multiplying with numbers in standard form **Algebra** algebraic notation, like terms, expanding brackets, forming algebraic expressions, applying laws of indices **Geometry** Angles in parallel lines, properties of quadrilaterals, translations, enlargements, constructions metric units for area & volume, surface area of prisms, volume of prisms **Probability** mutually exclusive events, sample space diagrams, estimates of probability/relative frequency	**Number** adding, subtracting, multiplying and dividing with integers and fractions, multiplication and division with large and small numbers **Algebra** graphs from linear equations, gradient of a straight line, graphs from quadratic equations, real-life graphs **Statistics** interpreting graphs and diagrams, relative sized pie charts, scatter graphs and correlation, creating scatter graphs **Ratio and Proportion** direct proportion, representing direct proportion algebraically and graphically, inverse proportion, comparing direct proportion and inverse proportion, ratio of lengths, areas and volume, enlargements, map scales **Geometry** circumference of circles, formulae for the circumference of circles, formula for area of circles congruent shapes, congruent triangles, using congruent triangles to solve problems	**Algebra** equations with brackets, equations with variables on both sides, more complex equations, rearranging formulae **Statistics** grouped frequency tables, drawing frequency tables, comparing sets of data, misleading charts
Assessment week and content	**w/c 13.11.23** All of the above, except content highlighted in green (students will also be give a topic list, with reference to MathsWatch clips, to support them with revision)	**w/c 05.02.24** Content highlighted in green (students will also be give a topic list, with reference to MathsWatch clips, to support them with revision)	**w/c 29.04.24** All the content covered over the year (students will also be give a topic list, with reference to MathsWatch clips, to support them with revision)