Stanborough

Curriculum Map
Year 7 Maths Accelerated

Time Period	Autumn Term	Spring Term	Summer Term
Content	• Negative numbers • Basic Algebra • Four operations with whole numbers and decimals, including rounding and BIDMAS • Perimeter, Area & Volume • Sequences	• Fractions • Percentages • Angles • Coordinates and graphs • Statistics • Probability • Revision of key topics from Autumn Term	• Linear Equations • Ratio • Symmetry • Interpreting data • 3D shapes • Revision of key topics from Spring Term
Skills	**Number** charts (bank statements, gas meters, distance charts) and arithmetic related to financial mathematics, simple arithmetic with negative numbers square numbers and square roots, rounding (decimal places), order of operations (BIDMAS), multiplication & division problems without a calculator, units of measurements (conversions) multiplying and dividing by 10, 100, 1000 and 10 000, ordering decimals, estimating, adding, subtracting, multiplying & dividing by decimals **Algebra** expressions and substitution, simplifying expressions, using and writing formulae function machines, sequences and rules, missing terms, working out nth term, special sequences **Geometry** perimeter and area of compound shapes made from rectangles, area of other 2D shapes (triangles, parallelograms and trapezia), surface area and volume of cubes and cuboids	**Number** Equivalent fractions, comparing fractions, adding and subtracting fractions, mixed numbers and improper fractions, fractions of quantities, calculating simple percentages, problems related to percentage increase and decrease **Algebra** coordinates in all four quadrants, graphs in the form y = ax and x + y = a (straight line graphs), graphs in the real world **Geometry** measuring and drawing angles, work out missing angles on straight lines and around a point, in triangles and in quadrilaterals, know rules related to corresponding, alternate and interior angles in parallel lines **Probability and Statistics** calculating the mode, median, mean and range, reading and interpreting statistical diagrams (including grouped frequency tables), collecting and using discrete and continuous data probability scales, combined events and understand the difference between theoretical and experimental probability	**Algebra** solving one and two step equations using 'balance method'/use of 'function machines', setting up and solving equations **Ratio and Proportion** understand the relationship between fractions and ratios, simplifying ratios, sharing and comparing quantities using ratios **Geometry** lines of symmetry, rotational symmetry, reflection and tessellations, identifying 3D shapes, work out faces, edges and vertices of 3D shapes, drawing and constructing nets of 3D shapes **Statistics** data from pie charts, using averages and range to compare data, interpreting data from various charts/graphs
Assessment week and content	**w/c 20.11.23** 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 12.02.24** Content highlighted in green (students will also be give a topic list, with reference to MathsWatch clips, to support them with revision)	**w/c 13.05.24** 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)