Stanborough

Curriculum Map
Year 7 Maths Standard

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 simple formulae function machines, sequences and rules, missing terms, special sequences **Geometry** perimeter and area of 2D shapes on a grid, use simple formulae to work out perimeter and area of rectangles, work out perimeter and area of compound shapes made from rectangles, volume of cubes and cuboids	**Number** equivalent fractions, simplifying and comparing fractions, adding and subtracting fractions, converting between mixed numbers and improper fractions, adding and subtracting mixed numbers, percentage, fraction and decimal equivalence, work out a fraction or a percentage of an amount, work out percentage increase and decrease **Algebra** recognise lines in the form x = a, y = b and the line y = x (straight line graphs) **Geometry** calculate angles at a point, on a straight line and in a right angle, properties of triangles and quadrilaterals, calculate missing angles in triangles and quadrilaterals **Probability and Statistics** calculate the mean, mode, median and range, read and interpret pictograms, tally charts, bar charts and line graphs, use grouped frequency tables, use keywords related to probability, probability scales, understand the difference between theoretical and experimental probability	**Algebra** solving one and two step equations, set up and solve simple 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, use of averages and range to compare data, interpret data from various charts/graphs
Assessment week and content	**w/c 20.11.23** All of the above (students will also be give a topic list, with reference to MathsWatch clips, to support them with revision)	**w/c 12.02.24** All of the above (students will also be give a topic list, with reference to MathsWatch clips, to support them with revision)	**w/c 13.05.24** All of the above (students will also be give a topic list, with reference to MathsWatch clips, to support them with revision)