**Maths Curriculum Overview**

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| **Year** | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **7** | Algebra:  Sequences; Algebraic notation; Equality and equivalence | Number/Ratio, proportion and rates of change:  Place Value; Ordering integers; Ordering decimals; FDP equivalence | Number:  Addition and subtraction problem solving; multiplication and division problem solving; fractions and percentages of amounts. | Number:  Direction and operations with negatives;  Addition and subtraction of fractions. | Geometry and measures:  Construction, measuring and using geometric notation; developing geometric reason | Number:  Developing number sense; sets and probability; prime numbers and proof. |
| **8** | Ratio, proportion and rates of change: Ratio and scale; multiplicative change; multiplying and dividing fractions. | Visual Representations contains Algebra/Statistics/Probability:  Working in the Cartesian plane; representing data; tables and probability. | Algebra: Brackets, equations and inequalities; sequences; indices. | Number: Fractions and percentages; standard index form; number sense. | Geometry and measures: Angles in parallel lines; angles in polygons; area of trapezia; area of circles; line symmetry and reflection. | Statistics: Data handling cycle; measures of location. |
| **9** | Algebra: straight-line graphs; forming and solving equations; testing and conjectures. | Geometry and measures: 3D shapes; constructions and congruence. | Number: Numbers; Using percentages; money. | Geometry and measures: Deduction; rotation and translation; Pythagoras’ theorem. | Ratio, proportion and rates of change: Enlargement and similarity; solving ratio and proportion problems; rates. | Probability: algebraic representations; KS3 revision of selected topics. |
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| **10** | Geometry and measures: Congruence, similarity and enlargement; trigonometry | Algebra: Representing solutions of equations and inequalities; simultaneous equations | Geometry and measures; angles and bearings; working with circles; vectors | Ratio, proportion and rates of change: ratios and fractions; percentages and interest; probability | Statistics and number: collecting, representing and interpreting data; non-calculator methods | Number and algebra:  Types of number and sequences; indices and roots; manipulating expressions |
| **11** | Algebra: gradients and lines; non-linear graphs; using graphs | Algebra: expanding and factorising; changing the subject; functions | Ratio, Geometry and Algebra: Multiplicative reasoning; Geometric reasoning; algebraic reasoning | Geometry and measures; Transforming and constructing; exam technique | Revision | Revision and examinations |