What will my child learn in Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	**Fractional thinking** Probability Factors, multiples, primes Fractions (+/-)	**Algebraic thinking** Directed number Manipulating algebra Exploring sequences	**Proportional reasoning** Fractions () Proportion Ratio Scale diagrams	**Proportional reasoning** Fractions () Proportion Ratio Scale diagrams	**Using shape** Coordinates & introducing straight line graphs Properties of shape Notation/labelling conventions Perimeter & area Circles – area & circumference	**Using shape** Coordinates & introducing straight line graphs Properties of shape Notation/labelling conventions Perimeter & area Circles – area & circumference
Year 8	**Delving into data** Angle Interpreting & comparing Averages Scatter graphs	**Formalising algebra** Solve equations Sequences (nth term) Graphs of linear functions, y=mx+c	**Proportional relationships** Percentages Convert between fractions, decimals & percentages Ratio – with linear functions & fractions Units of measure	**Proportional relationships** Percentages Convert between fractions, decimals & percentages Ratio – with linear functions & fractions Units of measure	**Geometrical reasoning** 3D shape Volume Angle, constructing triangles Pythagoras	**Geometrical reasoning** 3D shape Volume Angle, constructing triangles Pythagoras
Year 9	**Working with number** Rounding, estimation Error Intervals Standard form Indices **Working algebraically** Expanding & factorising Identities	**Numerical reasoning** Percentages Money **Probability** Finding probabilities Frequency trees Probability tree diagrams	**Working with data** Statistical measures Averages from freq tables Boxplots **Reasoning geometrically** Angles in parallel lines Bearings Constructions & loci	**Solving** Solving equations Solving inequalities Simultaneous equations **Sequences** Linear nth term Fibonacci, quad & geom Quadratic nth term	**Graphing** Straight line graphs Graphical solutions, parallel lines Sketching graphs **Rearranging** Rearranging formulae Units, compound measures	**Scaling** Direct/inverse proportion Similarity Scale diagrams & maps **Visualising** Transformations Plans & elevations Surface area

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Year 10	**Properties of number** Factors, multiples, primes HCF/LCM Fractional & -ve indices Surds Pythagoras with surds Rationalising the denominator	**Similarity** Similar shapes Enlargement Trigonometry **FDP** Frac/percent as operators Percentage change, compound interest Reverse percentages Recurring dec & frac	**Combinations & prob** Systematic listing Sample spaces Venn diagrams Product rule for counting Probability trees (non-r) **Geometry** Circles Area, volume Volume & surface area	**Algebra & Graphing** Straight line graphs – algebra review Function notation Solving quadratics *inc completing the square* Real life graphs Sketching quadratics Perpendicular lines Equation of circle, tangent	**Algebraic fractions** Fractions review Algebraic fractions **Describing position** Transformations Invariance Vectors, ops	**Displaying data** Pie charts, all bar charts Frequency tables Cumulative frequency Histograms **Polygons** Angles review, polygons
Year 11	**H:** **Algebra: Solving** Further sim equations Iteration **Geometry: angle** Circle theorems 3D trig Non right angled trig **F:** **Algebra: Solving** Simplifying, solving & rearranging Solving quadratics **Geometry** Congruence Trig, exact values Vectors Arcs & sectors	**H:** **Algebra: Functions** Composite, inverse functions Complex rearranging **Geometry: L, A & V** Congruence Similarity of 3D shapes Bounds – limits of accuracy **F:** **Algebra: Graphing** Ratio, equations & graphs Plotting graphs Sketching inc cubic, reciprocal Growth & decay Inequalities – solve & shade	**H:** **Algebra: Graphs** Growth & decay (exponential graphs) Rates of change Area under curve Graphs of trig functions *Transformations of graphs* **Proof** Geometric proof Proof using vectors Proof using algebra **F:** Class level responsive planning **Including revision with AO2/3:** **Multiplicative** Best buys, bank accounts, ratio **Geometric** Shape problems – add/split Multi-step problems	Class level planning responsive to mock analysis, overseen and supported by maths subject leaders **Including revision with AO2/3:** **Numerical** If something changes what will happen **Multiplicative** Ratio with every other topic **Geometric** Reasoning with angle **Algebraic** Evaluation of others work	**Final exams** Class level planning responsive to mock analysis, overseen and supported by maths subject leaders	**Final exams**