Curriculum Map

Subject: Mathematics **Year group: 7**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content *Declarative Knowledge – 'Know What'*	**Number** Types of Numbers Arithmetic Rounding Negative Numbers Order of Operations Percentages Fractions Decimals Ratios Proportion Calculator Use	**Number / Algebra** Algebraic Notation; Rules of Algebra; Equations; Sequences; Coordinates; Straight Line Graphs	**Algebra / Geometry and Measure** Properties of 2D and 3D shapes; Units of measurement; Symmetry; Transformations	**Geometry and Measure** Perimeter and Area; Angles	**Data Handling and Statistics** Data Handling Cycle; Averages and Range; Probability	**Data Handling and Statistics** **Consolidation of Year 7 Topics and Extension**
Skills *Procedural Knowledge – 'Know How'*	Identifying key types of numbers; Perform all forms of calculations to whole numbers, fractions and decimals; Round numbers to a given degree of accuracy; Calculate percentages using non-calculator and calculator methods; Performing calculations and problem solving using ratios and proportion; Calculate with negative numbers	Understand the use of algebraic notation; Simplify algebraic terms; Recognise the next and missing terms in a sequence; Understand the nth term of a linear sequence; Plot co-ordinates in all four quadrants; Drawing straight line graphs in the form y=mx+c; Solve equations	Be able to name and recognise different types of 2D and 3D shape and their properties; Convert between metric units of measurement; Perform simple transformations	Learn and use formulae to find area of shapes; Understand and apply angle facts	Collecting and recording data; Draw and use charts and graphs; Find mean, median, mode and range; Compare sets of data; Calculate the probability of events occurring	Use diagrams to represent probabilities; Construct accurate diagrams; Calculate the area and circumference of a circle; Solve equations in contextual situations; Use of multipliers for percentages; Drawing plan and elevations of 3D objects
Key Questions						

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Assessment	Baseline Assessment	Number Assessment	Algebra Assessment	Geometry and Measure Assessment	End of Year Assessments	N/a
Literacy/Numeracy/ SMSC/Character	Understanding and interpreting worded questions; Resilience – working through more challenging questions	Understanding and interpreting worded questions	Family project (SMSC) resilience, tolerance, initiative, confidence	Understanding and interpreting worded questions. Using correct language when giving reasons	Understanding and interpreting worded questions; Written explanations of data	Understanding and interpreting worded questions