Year 7 Curriculum Map: Maths

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
Unit Title & Assessment Task	Algebraic Thinking Half-Termly Cumulative Assessment	Place value and proportion Half-Termly Cumulative Assessment	Applications of number Half-Termly Cumulative Assessment	Directed numbers and fractional thinking Half-Termly Cumulative Assessment	Lines and angles Half-Termly Cumulative Assessment	Reasoning with number Half-Termly Cumulative Assessment
Key Knowledge/ Skills	To be able to describe and continue linear and non-linear sequences, with and without diagrams, as well as stating rules for sequences. To understand and use algebraic notation. To understand equality and equivalence of mathematical expressions, including solving equations.	To be able to understand place value and ordering integers and decimals accurately. To continue to develop understanding of fraction, decimals, and percentage equivalence and apply understanding to more complex problems.	To be able to use mental and formal written methods of addition with integers and decimals To develop ability to use mental and written methods of multiplication and division. To continue to develop skills of being able to work out simple fractions and percentages of amounts with and without a calculator	To be able to order directed numbers both in context and abstract situations. To develop ability to add and subtract with fractions, including exploring addition of numbers given in standard form.	To understand construction and Measuring including the use of letters and labelling for lines and angles. To develop understanding of geometric reasoning. To be able to calculate and use angles at a point, on a straight line and vertically opposite.	To continue to develop number sense, focussing on mental arithmetic strategies. To understand and use the language of probability. To be able to recognize prime, square and triangle numbers and be able to express a number as a product of prime factors.
Rationale:	This unit builds on prior knowledge at Key stage 2, developing students pattern recognition and formalising abstractions through algebraic methods.	This unit continues to develop KS2 knowledge, expanding the concept of place value to include decimals and rounding, and representations of	This scheme develops students understanding of mathematical operations in a variety of contexts, including area and perimeter for addition, and area for multiplication.	This unit develops students understanding of directed number, stretching understanding into negative numbers in context (e.g. equations). Students	This unit builds on skills of adding and subtracting to apply them to geometric reasoning, including angle rules and extending into angles on parallel lines. Students will review	Students will combine all of their skills this year to examine mental methods for calculations, different properties of number and probability.

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		fractions, decimals and percentages.	Students will explore how to apply techniques to solving problems with fractions and percentages of amounts.	will then develop strategies for adding and subtracting fractions, building on prior learning from KS2.	angle types and how to measure angles appropriately.	