Curriculum Sequencing Overview – Maths Year 8

	Unit 2							
Week	1	2	3	4	5	6	7	8
Date wb	14/11/22	21/11/22	28/12/22	05/12/22	12/12/22	02/01/23	09/01/23	16/01/23
Key dates	Year 8 parents evening Unit 1 KA data due			Year 8 ATL deadline			Year 8 mid-year exams	
Big ideas (key concepts)	Powers and roots		Order of operations		Revision, assessment, and feedback	Revision for mid-year exams	Simplifying and manipulating algebra	
Lesson topics sequence	Find the factors of a number. Can square and square root numbers and solve problems involving squares and area Can cube and cube root numbers and solve problems involving cubes and link to volume. Confidently use a calculator to square and square root, cube and cube root. Understand and calculate with indices greater than 3 Identify sets of numbers that form a Pythagorean triple. Calculate with negative integers and understand the term reciprocal. Can represent a given number as a product of its prime factors		Understand and use the links between four operations and know that addition and multiplication are commutative. Confidently perform the four operations with negative numbers Order calculations involving add and subtract only Order calculations involving multiply and divide only Order calculations involving all four operations Order calculations when indices are included Order calculations involving brackets Can add brackets into a calculation in order to change the outcome Substitute into a formula correctly following the order of operations				Find the perimeter of a given rectangle in different ways Understand the idea of an 'identity relationship' Identify an equation formula identity or expression and understand the differences Simplify an expression by collecting like terms Expand and simplify expressions involving brackets Factorise simple expressions into single brackets Fully factorise a more complex expressions into a single bracket	
Key assessments					End of unit assessment		Mid-year exams Unit 2 KA	
Homework	1-page self-quizzing, unit 2 Powers and roots 1 – 7	1-page self-quizzing, unit 2 Powers and roots 8 – 14 Hegarty task	1-page self-quizzing, unit 2 Order of operations 1 – 7 Hegarty task	1-page self-quizzing, unit 2 Algebraic terminology 1 – 6 Hegarty task	1-page self-quizzing, unit 2 Algebraic terminology 7 – 13 Hegarty task	1-page self-quizzing, unit 2 Expanding and factorising single brackets 1 – 7	1-page self-quizzing, unit 2 Powers and roots 1 – 7	1-page self-quizzing, unit 2 Powers and roots 8 – 14

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	Hegarty task 101	30	44	120	129	Hegarty task 548	Hegarty task 161	Hegarty task 168