Greystoke Primary School
Enabling our children to reach their full potential

2017/18 Mathematics Medium Term plans and textbook mapping.

Year 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Autumn	NUMBER:PLACE VALUE		MENTAL CALCULATION	STANLEY HEAD	NUMBER: ADDITIONSUBTRACTION, MULTIPLICATION AND DIVISION.			GEOMETRY: SHAPE/ROMAN NUMERALS		FRACTIONS		DECIMALS/PERCENTAGES		MEASURES:	
Spring	STATISTICS		NUMBER: ADDITION, SUBTRACTION, MULTIPLICATION AND DIVISION.		MEASURES:		ALGEBRA/RATIO		FRACTIONS						
Summer	GEOMETRY: SHAPE/ROMAN NUMERALS		SATS REVISION SATS		SATS	MEASURES		FRACTIONS		GEOMETRY: SHAPE/ROMAN NUMERALS		ALGEBRA			

Lesson Breakdown and Textbook Mapping

Year 6 Autumn Term

Topic	Week	National Curriculum Objective	Maths No Problem/Focus/NCETM mastery pages.
Place Value	1 & 2	• read, write, order and compare numbers up to 10 000 000 and determine the value of each digit • round any whole number to a required degree of accuracy • Use negative numbers in context, and calculate intervals across zero • solve number problems and practical problems that involve all of the above. • identify common factors, common multiples and prime numbers	
Number :addition	3	• perform mental calculations, including with mixed operations and large numbers • Use their knowledge of the order of operations to carry out calculations involving the four operations	
Stanley Head	4		
Number : all 4 operations	5, 6 and 7	• solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why • solve problems involving addition, subtraction, multiplication and division • use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy • multiply multi-digit numbers up to 4 digits by a two-digit whole number using the efficient written method of long multiplication • Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context	
Geometry	8	• recognise, describe and build simple 3-D shapes, including making nets • compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons • Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius	
Geometry	9	• recognise that shapes with the same areas can have different	

		• perimeters and vice versa • Calculate the area of parallelograms and triangles • recognise when it is necessary to use the formulae for area and volume of shapes • Calculate, estimate and compare volume of cubes and cuboids using standard units	
Fractions	10	• Use common factors to simplify fractions • Compare and order fractions, including fractions > 1 • Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction • Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions	
Fractions	11	• Multiply simple pairs of proper fractions, writing the answer in its simplest form • Divide proper fractions by whole numbers Solve problems involving • unequal sharing and grouping using knowledge of fractions and Multiples	
Decimals	12	• identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places • Multiply one-digit number with up to two decimal places by whole numbers • Use written division methods in cases where the answer has up to two decimal places • solve problems which require answers to be rounded to specified degrees of accuracy.	
Percentages	13	• Solve problems involving the calculation of percentages [for example, of measures, and such as • Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	
Measures:	14 & 15	• solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate • Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places • Convert between miles and kilometres	