Maths Long Te	Maths Long Term Plan - Year 5							
Week	Topic	Objectives	Vocabulary	Things to revisit				
Week 1 - 4	Place Value: 7-digit numbers	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	place holder, place value, ones, tens, hundreds, thousands, ten					
	Negative numbers Rounding	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	thousands, hundred thousands, millions, negative number, integer,					
	Roman Numerals	Interpret negative numbers in context, count forwards and backwards with positive	powers of ten, sequence, digit,					
		and negative whole numbers, including through zero Solve number problems and practical problems that involve all of the above	number, equal, greater than, less than, inequality signs (< >)numeral,					
		Read Roman numerals to 1000 (M) and recognise years written in Roman numerals	degree of accuracy, columns, round, estimate, calculation.					
		Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100						
		000 Use rounding to check answers to calculations and determine, in the context of a						
		problem, levels of accuracy						
Week 5-7	Addition & Subtraction	Add and subtract whole numbers with more than 4 digits, including using formal	add, subtract, addition, subtraction,					
		written methods (columnar addition and subtraction) Add and subtract numbers mentally with increasingly large numbers	calculation, total, column, exchange, operation, inverse, equals.					
		Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why						
Half Term		operations and methods to use and writy						
Week 8	Units of Measure	Convert between different units of metric measure (for example, kilometre and	convert, place holder, tenths,					
		metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	hundredths, thousandths, ones, tens, hundreds, thousands, convert, unit,					
		and mining)	metric, digits.					
Week 9-12	Multiplication & Division	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	multiply, divide, multiples, factors product, operation, division, formal					
		Know and use the vocabulary of prime numbers, prime factors and composite	method, inverse, equal, calculation, remainder, short division, digit,					
			column, powers of 10, decimals,					
		Multiply and divide numbers mentally drawing upon known facts  Recognise and use square numbers and cube numbers, and the notation for	tenths, hundredths, thousandths, prime numbers, composite numbers.					
		squared (²) and cubed (*)	square(d), cube(d), common.					
		Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes						
		Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers						
		Multiply and divide whole numbers and those involving decimals by 10, 100 and						
		1000 Divide numbers up to 4 digits by a one-digit number using the formal written						
		method of short division and interpret remainders appropriately for the context Solve problems involving addition, subtraction, multiplication and division and a						
		combination of these, including understanding the meaning of the equals sign						
Week 13 Week 14	Assessments Consolidation							
Christmas Holid								
Week 15-18	Fractions	Compare and order fractions whose denominators are all multiples of the same number	numerator, denominator, inequality signs, multiple, equivalent, mixed					
		Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	number, improper fraction, convert, inequality signs, whole.					
		Add and subtract fractions with the same denominator and denominators that are	mequanty signs, whole.					
		multiples of the same number Recognise mixed numbers and improper fractions and convert from one form to						
		the other and write mathematical statements > 1 as a mixed number [for example, $2/5 + 4/5 = 6/5 = 1$ ]						
		Multiply proper fractions and mixed numbers by whole numbers, supported by						
		materials and diagrams						
Week 19-20	Four operations with emphasis on division (see objectives	Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	multiply, divide, product, operation, division, formal method, inverse,					
	above also)	Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	equal, calculation, remainder, short division, digit, column, decimals,					
			tenths, hundredths, thousandths					
Half Term								
Week 21-22	Fractions & Decimals	Read and write decimal numbers as fractions [for example, 0.71 = 71/100] Recognise and use thousandths and relate them to tenths, hundredths and	decimal, fraction, equivalent, tenths, hundredths, thousandths, decimal					
		decimal equivalents	place, decimal point, place holder,					
		Round decimals with two decimal places to the nearest whole number and to one decimal place	column, numerator, denominator, round, inequality signs.					
		Read, write, order and compare numbers with up to three decimal places Solve problems involving number up to three decimal places						
Week 23-24	Percentages	Recognise the per cent symbol (%) and understand that per cent relates to	percent, percentage, hundredths,					
		'number of parts per hundred', and write percentages as a fraction with	increse, decrease, equivalent,					
		denominator 100, and as a decimal Solve problems which require knowing percentage and decimal equivalents of	denominator, numerator, decimal, fraction, mutliple.					
		1/2, 1/4, 3/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25						
Week 25	Assessments	1	l					
Week 26	Consolidation							
Easter Holidays Week 27 - 29	Area & Perimeter	Measure and calculate the perimeter of composite rectilinear shapes in	area, perimeter, formula, squared (2),					
7700K Z1 - Z8	,a a i cililetei	centimetres and metres	length, width, square units, estimate,					
I	I	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and	rectilinear, measure.					
			Ī					
		estimate the area of irregular shapes						
Week 30	Four operations - standard written methods	estimate the area of irregular shapes  Add and subtract whole numbers with more than 4 digits, including using formal	add, plus, sum, subtract, minus,					
Week 30	Four operations - standard written methods	estimate the area of irregular shapes  Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)  Multiply numbers up to 4 digits by a one- or two-digit number using a formal	difference, addition, subtraction, calculation, total, column, exchange,					
Week 30		estimate the area of irregular shapes  Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	difference, addition, subtraction,					
Week 30		estimate the area of irregular shapes  Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)  Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers	difference, addition, subtraction, calculation, total, column, exchange, operation, inverse, equals, multiply, divide, multiples, factors product, operation, division, formal method,					
Week 30		estimate the area of irregular shapes  Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)  Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers  Divide numbers up to 4 digits by a one-digit number using the formal written	difference, addition, subtraction, calculation, total, column, exchange, operation, inverse, equals, multiply, divide, multiples, factors product,					
	written methods	estimate the area of irregular shapes  Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)  Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers  Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	difference, addition, subtraction, calculation, total, column, exchange, operation, inverse, equals, multiply, divide, multiples, factors product, operation, division, formal method, inverse, equal, calculation, remainder, short division					
Week 30  Week 31-32		estimate the area of irregular shapes  Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)  Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers  Divide numbers up to 4 digits by a one-digit number using the formal written	difference, addition, subtraction, calculation, total, column, exchange, operation, inverse, equals, multiply, divide, multiples, factors product, operation, division, formal method, inverse, equal, calculation, remainder, short division					
	written methods	estimate the area of irregular shapes  Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)  Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context  Estimate volume [for example, using 1cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]  Use all four operations to solve problems involving measure [for example, length,	difference, addition, subtraction, calculation, total, column, exchange, operation, inverse, equals, multiply, divide, multiples, factors product, operation, division, formal method, inverse, equal, calculation, remainder, short division					
	written methods	estimate the area of irregular shapes  Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)  Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers by to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context  Estimate volume [for example, using 1cm² blocks to build cuboids (including cubes)] and capacity [for example, using water]	difference, addition, subtraction, calculation, total, column, exchange, operation, inverse, equals, multiply, divide, multiples, factors product, operation, division, formal method, inverse, equal, calculation, remainder, short division					

Week 34 - 35	Angles  Properties of number - Recap with a focus on vocabulary - multiples, factors, prime, composite, square, cube etc.	Revision: Know angles are measured in degrees Estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees (*) New learning: Identify: • angles at a point and one whole turn (total 360°) • angles at a point on a straight line and a turn (total 180°) • other multiples of 90° Any number objectives above that need recapping or going over, especially linked to vocabulary	3D, 2D, dimension(s), faces, edges, vertices, vertex, angles, right angles, acute, abtuse, reflex, measure of rotation, whole turn, straight line. Degrees, cube, cuboid, prism, protractor.			
Week 36						
Week 37						
Week 38						
Week 39	Transition Week - Statistics					