Broadwood Primary School
Maths Yearly Overview: Year 5

Autumn 1						
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Place Value			**Addition and Subtraction**		**Multiplication and Division**	
Identify the place value in large whole numbers Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10,000 and 100,000 Solve number problems and practical problems involving the above Read Roman numerals to 1000 (M) and recognise years written in Roman numerals			Practise using the formal written methods of column addition and subtraction with increasingly large numbers to aid fluency Add and subtract numbers mentally with increasingly large numbers Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.		Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 Multiply and divide numbers mentally, drawing upon known facts Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19 Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes	

Autumn 2						
Week 1	**Week 2**	**Week 3**	**Week 4**	**Week 5**	**Week 6**	**Week 7**
Multiplication and Division		Fractions *Assessment Week*				Revisit all four operations
Adding on to Autumn 2 objectives; 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		Compare and order fractions whose denominators are all multiples of the same number Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths 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 1/5] Add and subtract fractions with the same denominator and denominators that are multiples of the same number Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams				Recap all four operations and provide intensive intervention for any child who has gaps.

Spring 1					
Week 1	**Week 2**	**Week 3**	**Week 4**	**Week 5**	**Week 6**
Multiplication and Division			Fractions		Statistics
Building upon Autumn term; 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 Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.			Compare and order fractions whose denominators are all multiples of the same number Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths 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 1/5] Add and subtract fractions with the same denominator and denominators that are multiples of the same number Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams		Solve comparison, sum and difference problems using information presented in a line graph Complete, read and interpret information in tables, including timetables.

Spring 2				
Week 1	**Week 2**	**Week 3**	**Week 4**	**Week 5**
Decimals & Percentages			Measures – Perimeter and Area *Assessment*	
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 equivalents Round decimals with two decimal places to the nearest whole number and to one decimal place Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal Solve problems which require knowing percentage and decimal equivalents of 1/2 , 1/4 , 1/5 , 2/5 , 4/5 and those fractions with a denominator of a multiple of 10 or 25			convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre) Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	

Summer 1					
Week 1	**Week 2**	**Week 3**	**Week 4**	**Week 5**	**Week 6**
Shape			Position and Direction		Negative Numbers
Identify 3-D shapes, including cubes and other cuboids, from 2-D representations Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Draw given angles, and measure them in degrees (o) Identify: • angles at a point and one whole turn (total 360o) • angles at a point on a straight line and 2 1 a turn (total 180o) • other multiples of 90o Use the properties of rectangles to deduce related facts and find missing lengths and angles Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.			Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. Mathematics		Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero

Summer 2						
Week 1	**Week 2**	**Week 3**	**Week 4**	**Week 5**	**Week 6**	**Week 7**
Decimals			Converting Units		Measurement Volume	Ready to Progress
Building upon Spring 2; Read, write, order and compare numbers with up to three decimal places Solve problems involving number up to three decimal places			convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)		Convert between different units of metric measure; litre and millilitre. Understand and use approximate equivalences between metric units and common imperial units Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity. Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	Problem solving activities. Intensive intervention for any children who are not secure in arithmetic.