



Year 5	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Recognise the place value of each digit in numbers to at least 1 million, and compose and decompose them using standard and non-standard partitioning Reason about the location of any number with up to 1 million in the linear number system, including identifying the previous and next multiple of 1 thousand, 10 thousand and 100 thousand. Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 Mentally count forwards or backwards in 10 thousands or 100 thousands up to 1 millions (e.g. 253,246 / 254,246 / ???) (Include on the 7 a day every day)			NPV 1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth and that 0.1 is ten times the size of 0.01.		NPV 2 Recognise the place value of each digit in numbers of up to 2 decimal places, and compose and decompose them using standard and non-standard partitioning Read and write decimal numbers as fractions (e.g. 0.71 = 71/100)	NPV3 Reason about the location of any number with up to 2 decimal places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 Round decimals with two decimal places to the nearest 1 and 0.1
Autumn 2	Represent and write thousandths as fractions and decimals using concrete, pictorial, linear and abstract representations, relating them to tenths and hundredths Read, write, order and compare numbers with up to three decimal places	NPV-4 Divide 1 into 2, 4, 5 and 10 equal parts and read scales / number lines split into these equal parts (link to fractions) Apply scale reading to interpret data using bar graphs and line graphs and solve comparison, sum and difference problems.	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero	Add and subtract numbers mentally with increasingly large numbers For example + 9 + 90 Number bonds Use red and white beads to show bridging eg $7 + 5 = (7 + 3 + 2)$ Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.		(Throughout the year) 5NF-1 Secure fluency in tables facts and corresponding division facts through continued practice 5NF-2 Apply place value knowledge to known + and x facts to scale them by 1 tenth or 1 hundredth e.g. $4 \times 7 = 28$ so $0.4 \times 7 = 2.8$ and use inverse relationships (then add to 7 a day everyday!)	



Spring 1	5MD-1 Multiply and divide numbers by 10 and 100; understand this as equivalent to making the number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size (links back to NPV-1)	5MD-2 Identify factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors e.g. $4 \times 5 = 20$; $2 \times 2 \times 5 = 20$	5MD-3 Multiply numbers up to 4 digits by a one-digit number using a formal written method (2/3 days) Multiply numbers up to 4 digits by a two-digit number using a formal written method (7/8 days)		5MD-4 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		NPV-5 Convert between units of measure including using common decimals Solve multi-step problems involving measure using decimal notation (e.g. length, mass, volume, money) using a combination of the 4 operations, including understanding the meaning of the equals sign
Spring 2	NPV-5 Convert between units of measure including using common decimals Solve multi-step problems involving measure using decimal notation (e.g. length, mass, volume, money) using a combination of the 4 operations, including understanding the meaning of the equals sign	Recap and secure understanding of mixed numbers and improper fractions and convert from one form to the other	5F-1 Find non-unit fractions of quantities (including bar models; context problems)	5F-2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system	Compare and order fractions whose denominators are all multiples of the same number	Add and subtract fractions with the same denominator and denominators that are multiples of the same number	

Summer 1	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	Recognise the percent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator hundred, and as a decimal fraction	5F-3 Recall percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{10}$ and multiples of these Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes		
Summer 2	Identify angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180 degrees) Identify angles at a point and one whole turn (total 360 degrees) 5G-1 Compare angles, estimate and measure angles in degrees and draw angles of a given size	5G-2 Compare areas and calculate the area of rectangles (including squares) using standard units (recap of multiplication)	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	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 Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	Complete, read and interpret information in tables, including timetables. solve problems involving converting between units of time	Prioritise any objectives that need revisiting to secure before the end of the year, starting with four operations.	