

Autumn 2023				
BLOCK	WEEKS	KEY VOCABULARY	SMALL STEPS	NC OBJECTIVES
Number – Place Value	1-3	Roman numerals, place value, units/ones, tens, hundreds, thousands, ten of thousands, hundred of thousands, millions, positive, negative, compare, order, round.	Roman numerals to 1000 Numbers to 10,000 Numbers to 100,000 Numbers to 1,000,000 Read and write numbers to 1,000,000 Powers of 10 10/100/1,000/10,000/100,000 more or less Partition numbers to 1,000,000 Number line to 1,000,000 Compare and order numbers to 100,000 Compare and order numbers to 1,000,000 Round to the nearest 10,100,1000 Round within 100,000 Round within 1,000,000	Read, write, order and compare numbers to at least one million and determine the value of each digit. Count forwards and backwards in powers of 10 for any given number up to one million. Interpret negative numbers in context, count forwards and backwards with positive and negative numbers including going through zero. Round any number up to one million to the nearest 10, 100, 1,000, 10,000 and 100,000. Solve number problems and practical problems that involve all of the above. Read Roman numerals up to 1,000 (M) and recognise years written in Roman numerals.
Number – Addition and subtraction	4-5	Addition, subtraction, add, take away, plus, whole number, digits, inverse, operation, estimate and approximate, round.	Mental strategies Add whole numbers with more than four digits Subtract whole numbers with more than four digits Round to check answers Inverse operation (addition and subtraction) Multi-step addition and subtraction problems Compare calculations Find missing numbers	Add and subtract whole numbers with more than four digits, including formal written methods (columnar addition and subtraction) 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
Number – Multiplication and division A	6-8	Multiples, factors, cubed, squared, common factors, prime numbers, square numbers, cube numbers multiply, divide, groups of, multiple.	Multiples Common multiples Factors Common factors Prime numbers Square numbers Cube numbers Multiply by 10, 100, 1,000 Divide by 10, 100, 1,000 Multiples of 10, 100 and 1,000	Solve problems involving multiplication and division including their knowledge of factors and multiples, squared and cubed. Know and use the vocabulary of prime numbers, prime factors and composite numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000
Number – Fractions A	9-12	Convert, improper fractions, mixed numbers, denominator, total, greater than, whole, subtract, add	Find fractions equivalent to a unit fraction Find fractions equivalent to a non-unit fraction Recognise equivalent fractions Convert improper fractions to mixed numbers	Compare and order fractions who denominators are all multiples of the same number

			<p>Convert mixed numbers to improper fractions Compare fractions less than 1 Order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions with the same denominator Add fractions within 1 Add fractions with a total greater than 1 Add to a mixed number Add two mixed numbers Subtract fractions Subtract from a mixed number Subtract from a mixed number – breaking the whole Subtract two mixed numbers</p>	<p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements</p> <p>Identify, name and write equivalent fractions of a given fraction, visually represented visually, including tenths and hundredths</p> <p>Add and subtract fractions with the same denominator and denominators that are multiples of the same number</p>
--	--	--	--	--