

Weeks	Sequence and Theme	National Curriculum Links	Learning Questions (Small Steps)	Key Vocabulary
1-3	Number Place Value	<ul style="list-style-type: none"> Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals 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 Solve number problems and practical problems involving the above Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 	<ol style="list-style-type: none"> Can I recognise Roman Numerals to 1,000? Can I recognise numbers to 10,000? Can I recognise numbers to 100,000? Can I recognise numbers to 1,000,000? Can I read and write numbers to 1,000,000? Can I further develop my understanding of place value by exploring the relationship between numbers in different columns (powers of 10)? Can I find 10/100/1,000/10,000/100,000 more or less of any given number? Can I partition numbers to 1,000,000? Can I sue a number line to 1,000,000? Can I compare and order numbers to 100,000? Can I compare and order numbers to 1,000,000? Can I round to the nearest 10, 100 or 1,000? Can I round within 100,000? Can I round within 1,000,000? 	<p><i>Powers of 10</i> <i>Tenths, hundredths</i> <i>Decimal (places)</i> <i>Round (to nearest)</i> <i>Thousand more/less than</i> <i>Negative integers</i> <i>Count through zero</i> <i>Roman numerals (I to C)</i> <i>Numbers to one thousand</i> <i>Numbers to one hundred</i> <i>Hundreds</i> <i>Partition, recombine</i> <i>Hundred more/less</i> <i>None</i> <i>Count (on/up/to/from/down)</i> <i>Before, after</i> <i>More, less, many,</i> <i>Few, fewer, least, fewest, smallest, greater, lesser</i> <i>Equal to, the same as</i> <i>Odd, even</i> <i>Pair</i> <i>Units, ones, tens</i> <i>Ten more/less</i> <i>Digit, Numeral, Figure(s)</i> <i>Compare</i> <i>Size</i> <i>Value</i> <i>Between, Halfway between, Above, below</i></p>
4-5	Number Addition and Subtraction	<ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly large numbers Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction) Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy 	<ol style="list-style-type: none"> Can I mentally calculate sums (mental strategies)? Can I add whole numbers with more than four digits? Can I subtract whole numbers with more than four digits? Can I round to check answers? Can I use inverse operations (addition and subtraction)? Can I answer multi-step addition and subtraction problems? Can I compare calculations? Can I find missing numbers in calculations? 	<p><i>Efficient written method</i> <i>Column addition and subtraction</i> <i>Number bonds, number line</i> <i>Add, more, plus, make, sum, total, altogether</i> <i>Inverse</i> <i>Double</i> <i>Half, halve</i> <i>Equals, is the same as (including equals sign)</i> <i>Difference between</i> <i>How many more to make...?</i> <i>How many more is...than...?</i> <i>How much more is...?</i> <i>Subtract, take away, minus</i> <i>How many fewer is...than...?</i> <i>How much less is...?</i> <i>How many left?</i></p>
6-8	Number Multiplication and Division	<ul style="list-style-type: none"> Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Solve problems involving multiplication and division, including using their 	<ol style="list-style-type: none"> Can I find sets of multiples of given numbers and make generalisations about them? Can I find common multiples of any pair of numbers? Can I explain they the relationship between multiplication and division and consolidate 	<p><i>Factor pairs</i> <i>Composite numbers, prime number, prime factors, square number, cubed number</i> <i>Formal written method</i> <i>Multiplication facts (up to 12x12)</i> <i>Division facts</i> <i>Inverse</i></p>

		<p>knowledge of factors and multiples, squares and cubes</p> <ul style="list-style-type: none"> • 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) • Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 • Multiply and divide numbers mentally, drawing upon known facts 	<p>my understanding of the words “factor” and “multiple”?</p> <ol style="list-style-type: none"> 4. Can I recognise common factors? 5. Can I recognise Prime numbers? 6. Can I recognise Square numbers? 7. Can I recognise Cube numbers? 8. Can I multiply by 10, 100 and 1,000? 9. Can I divide by 10, 100 and 1,000? 10. Can I multiply and divide by multiples of 10, 100 and 1,000? 	<p><i>Derive</i> <i>Product</i> <i>Multiples of four, eight, fifty and one hundred</i> <i>Scale up</i> <i>Odd, even</i> <i>Count in twos, threes, fives</i> <i>Count in tens (forwards from/backwards from)</i> <i>How many times?</i> <i>Lots of, groups of</i> <i>Once, twice, three times, five times</i> <i>Multiple of, times, multiply, multiply by</i> <i>Repeated addition</i> <i>Array, row, column</i> <i>Double, halve</i> <i>Share, share equally</i> <i>Group in pairs, threes, etc.</i> <i>Equal groups of, Divide, divided by, left, left over</i></p>
9-12	Number Fractions A	<ul style="list-style-type: none"> • 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 • 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 	<ol style="list-style-type: none"> 1. Can I find fractions equivalent to a unit fraction? 2. Can I find fractions equivalent to a non-unit fraction? 3. Can I recognise equivalent fractions? 4. Can I convert improper fractions to mixed numbers? 5. Can I convert mixed numbers to improper fractions? 6. Can I compare fractions less than 1? 7. Can I order fractions less than 1? 8. Can I compare and order fractions greater than 1? 9. Can I add and subtract fractions with the same denominator? 10. Can I add fractions within 1? 11. Can I add fractions with total greater than 1? 12. Can I add to a mixed number? 13. Can I add two mixed numbers? 14. Can I subtract fractions? 15. Can I subtract from a mixed number? 16. Can I subtract from a mixed number – breaking the whole? 17. Can I subtract two mixed numbers? 	<p><i>Proper fractions, improper fractions, mixed numbers</i> <i>Percentage</i> <i>Half, quarter, fifth, two fifths, four fifths</i> <i>Ratio, proportion</i> <i>Equivalent decimals and fractions</i> <i>Numerator, denominator</i> <i>Unit fraction, non-unit fraction</i> <i>Compare and order</i> <i>Tenths</i> <i>Three quarters, one third, a third</i> <i>Equivalence, equivalent</i> <i>Whole</i> <i>Equal parts, four equal parts</i> <i>One half, two halves</i> <i>A quarter, two quarters</i></p>
13-14	<p><i>Consolidate Autumn 1 learning through recap, revision and real life experiences.</i> <i>* Teacher’s discretion to start Spring Topic 1 in Week 13/14</i></p>			