

| Y E A R 3 / 4 A U T U M N T E R M | NC OBJECTIVES | SEQUENCE OF LEARNING | KNOWLEDGE ORGANISER – facts and vocabulary |
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| | <p>6 weeks - Number: Place Value</p> <ul style="list-style-type: none"> count from 0 in multiples of 4, 8, 50 and 100, count in multiples of 6, 7, 9, 25 and 1,000; find 10 or 100 more or less than a given number find 1,000 more or less than a given number recognise the place value of each digit in a 3-digit 4-digit number (1000s, 100s, 10s, 1s) compare and order numbers up to 1,000 beyond 1,000 identify, represent and estimate numbers using different representations (including a variety of partitioning) count backwards through 0 to include negative numbers round any number to the nearest 10, 100 or 1,000 read and write numbers up to 1,000 in numerals and in words read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value solve number problems and practical problems involving these ideas | <p>Counting in different multiples taught throughout the block as lesson starters with links between different multiples being highlighted (use of Big Maths PPTs). Order: 100s, 50s, 1000s, 25s</p> <ol style="list-style-type: none"> Roman Numerals to 100 Representing numbers in a range of ways Estimating numbers on number lines Partitioning in more than way Finding 1, 10, 100, 1000 more/less Rounding to the nearest 10, 100, 1000 Comparing numbers Ordering numbers Negative numbers | <p>Numbers to one thousand Roman numerals I V X D C M</p> <p>Back, backwards, compare, count in 2s, 5s, 10s, continue, digit, forwards, greater than (>), less than (<), multiple of, nearest ten, negative, number facts, numeral, partition, place, place value, predict, represents, round, sequence, teens, zero</p> |
| | <p>5 weeks - Number: Addition and Subtraction</p> <ul style="list-style-type: none"> add and subtract numbers mentally, including: <ul style="list-style-type: none"> a three-digit number and 1s a three-digit number and 10s a three-digit number and 100s add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate estimate the answer to a calculation and use inverse operations to check answers solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why | <ol style="list-style-type: none"> Adding and subtracting multiples 1, 10, 100, 1000 – spotting patterns within this (3d +/- 1d, 3d +/- 2d, 3d +/- 3d and 4d +/- 1d, 4d +/- 2d, 4d +/- 3d) Adding which involves exchanging (crossing 10/100 boundaries) Using place value columns to show addition Subtracting which involves exchanging (crossing 10/100 boundaries) Using number lines to count back in 10s and 100s Using place value columns to show subtraction Subtraction with more than one exchange Finding the most efficient methods Estimating answers and checking strategies | <p>Addition facts for all numbers up to 20</p> <p>Addition (+), answer, calculate, calculation, difference, empty number line, equals (=), estimate, explain, hundreds, inverse, method, minus, ones, operation, partition, pattern, plus, problem, reasoning, solution, subtraction, sum, take away, total</p> |
| | <p>2 weeks - Number: Multiplication and division</p> <ul style="list-style-type: none"> recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables up to 12 × 12 write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods | <ol style="list-style-type: none"> Making equal groups Fact families Multiply and divide by 3 – times table and division facts Multiply and divide by 6 – times table and division facts Multiply and divide by 4 – times table and division facts Multiply and divide by 8 – times table and division facts | <p>Times tables facts (and corresponding divisions)</p> <p>Answer, array, associative, calculation, communicative, divide, double, equation, fact, group, halve integer, inverse, multiple, multiply, pattern, product, remainder, sentence, share, symbol, times</p> |

