NEW NC Year 1/2/3/4 Spring Medium Term Plan

Topic	Year 1	Year 2	Year 3	Year 4
Number Concepts	 One more and one less than 2-digit number Find one more/less than any 2-digit number Make a sensible estimate up to 100 (e.g. choosing from 10, 20, 50 or 100). Find ten more and ten less than and 2-digit number Recognise and describe what is happening to the multiples of ten on the number grid. Recognise odd and even numbers up to 20. Sort numbers up to 20 into odd and even. Show a 2-digit number by combining groups of ten and one Locate numbers on a beaded line Know what each digit means in a 2-digit number and estimate a number of objects and group in tens when counting to check. Compare two numbers less than 100, say which is more or less. Give a number between two neighbouring multiples of 10. 	 Mark 2-digit numbers on a landmarked line (labelled in 10s). Round 2-digit numbers to nearest multiple of 10. Make comparisons about two 2-digit numbers eg < and > Describe properties of numbers and locate numbers on a number line and find a number in- between 2 given numbers Identify properties of numbers and use this to sort them. Use ordinal numbers in context up to 10th and beyond and solve problems using ordinal numbers 	 Place 3-digit numbers on a 0- 1000 line and initially between multiples of 100 on landmarked lines. Know what each digit represents in a 3-digit number and use 0 as a placeholder. Round 3-digit numbers to the nearest 10. Compare two 3-digit numbers. Order three 3-digit numbers using place value. Solve a problem using knowledge of place value. Multiply and divide by 10 and 100 and know how to use place value to help with multiplying and dividing. Know what each digit represents in a 3-digit amount of money. Multiply and divide amounts of money less than £1 by 10 and 100. Know that every operation has an inverse and perform 2-step operations. 	 Understand what each digit represents in a number with one decimal place Place one-place decimals on a number line. Compare 1-place decimals and write one in between, e.g. 2.1 and 1.2 and say what whole number comes between these two. Round tenths to nearest whole. Recognise decimal and fraction forms of tenths. Add and subtract 0.1 and 1 to/from numbers with one decimal place Understand that when we divide by 10, digits shift one place to the right Understand that when we multiply by 10, digits shift one place to the left. Multiply and divide by 10 and 100 (whole answers or with 1dp) Multiply multiples of 10 and 100 by single-digit numbers Use negative numbers in context of temperature Place negative and negative numbers

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Mental Addition and Subtraction	 Find addition pairs to 7, 8, 9 and 10 and record the number pairs as addition number sentences. Relate addition and subtraction number bonds by discussing the relationship between the numbers used and write the corresponding subtraction number sentences. Know number bonds to 8 by heart. Write number bonds as number sentences and know that addition can be done in any order. Know number bonds to 9 by heart. Write number bonds as number sentences and know that addition can be done in any order. Know all number bonds to 10. 	 Add a single-digit number to a 2-digit number, bridging 10. Subtract a single-digit number from a 2-digit number, bridging 10. Use number facts or place value to add and subtract Add 5 small numbers spotting pairs to 10 or doubles 	 Add pairs of 2-digit numbers using a variety of strategies. Add 3 2-digit numbers. Subtract near multiples of 10 from a 2-digit number. Subtract any 2-digit number from another, using counting up. Select an appropriate strategy to subtract. Use number facts to add a single-digit number to a 3- digit number eg 313 + 6 Cross the 10s borders when adding eg 316 + 8 Add multiples of 10 and 100 to 3-digit numbers, crossing the 10s and 100s barriers eg 375 + 30, 567 + 300 Use number fact to subtract a single-digit number from a 3- digit number eg 248 - 4 Cross the 10s borders when subtracting eg 243 - 6 Subtract multiples of 10 and 100 to 3-digit numbers, crossing the 10s and 100s barriers eg 345 - 50, 567 - 300 	 Add single-digit numbers to four-digit numbers, bridging multiples of 10, 100 and 1000 Add multiples of 10, 100 and 1000 to four-digit numbers, crossing 10s, 100s but not crossing 10,000 Subtract single-digit numbers, bridging multiples of 10, 100 and 1000 Subtract multiples of 10, 100 and 1000 from four-digit numbers, crossing 10s and 100s Understand inverse operations, how subtraction 'undoes' addition for example

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Written addition	 Use pairs to ten to bridge ten with the support of bead strings and beaded lines Add three small numbers, spotting pairs to ten, doubles and understand that changing the order of addition does not change the total. Add 10, 20 or 30 to any 2- digit number (answers less than 100). Know the value of each coin to £1 Find totals of 2 and 3 coins to 10p Begin to find all possibilities by making an ordered list Find ways to pay up to 10p. Use pairs to ten to bridge ten with the support of money lines. Add coins and amounts which total more than 10p. Find totals of single-digit prices using known facts or counting on, including bridging 10p. Add 10p and 20p to 2-digit prices, answers less than £1. 	 Add 2-digit numbers by partitioning or empty number line Add 10 eg 32 + 10 Add multiple of 10 eg 32 + 40 Add teens numbers 32 + 14 Add teens crossing the 10's barrier eg 36 + 18 Add two digit number not crossing 10's barrier 34 + 42 Add 2-digit numbers where the ones will cross the 10s barrier eg 37 + 48 Decide whether a word problem requires addition or subtraction to solve it Recognise all coins Use coins to make 2-digit amounts Add 2-digit money amounts using partitioning 	 Add two 3-digit numbers using expanded addition including additions that give a 10 in the 1s column eg 345 + 237 Add two 3-digit numbers using expanded addition including additions that give a 10 in the 1s column OR give 100 in the 10s column. eg 345 + 373 Add two 3-digit numbers using expanded addition. Begin to use compact addition. Interpret a word problem. Use addition to solve a word problem. 	 Use compact addition to add three 2-digit numbers Use rounding to estimate totals Use compact addition to add four 2-digit numbers Use compact addition to add three 3-digit numbers Approximate the answer first Use compact addition to add amounts of money with one 'carry', e.g. £3.25 + £2.68 Use rounding to estimate the total before carrying out the addition Use compact addition to add amounts of money with two 'carries', e.g. £3.45 + £2.68

Торіс	Year 1	Year 2	Year 3	Year 4
Written subtraction	 Subtract 10, 20 or 30 from 2-digit numbers Find the difference between two towers of cubes. Find towers have a difference of 3. Find change from 10p by counting on and using number bonds. Find the difference between amounts of money less than 20p, with a difference of 5p or less. 	 Subtract 2-digit numbers by counting up to find the difference Subtract 10 eg 32 - 10 Subtract multiple of 10 eg 82 - 40 Subtract teens numbers eg 38 - 14 Subtract two digit number not crossing 10's barrier eg 94 - 42 Subtract 2-digit numbers where the ones will cross the 10s barrier eg 92 - 48 Find change from 50p using pairs to 10. Find change by counting up to find a difference Decide whether a word problem requires addition or subtraction to solve it 	 Subtract using counting up on the empty number line. Use addition to check subtraction. Interpret a word problem. Use counting up subtraction to solve a word problem 	 Use finding the difference eg counting up on an empty number line to subtract 3-digit numbers, e.g. 414 - 278 Find the change from £5 and from £10 Find a difference between prices, e.g. £4.24 and £3.78 Subtract pairs of three-digit numbers using expanded decomposition (one 'carry') eg 352 - 128 or 457 - 263 Subtract pairs of three-digit numbers using expanded or compact decomposition (one 'carry') Subtract any pair of three-digit numbers using expanded or compact decomposition (one 'carry') Subtract any pair of three-digit numbers using expanded or compact decomposition (two 'carries') 623 - 367 Check subtraction with addition Subtract any pair of 3-digit numbers using written or mental method

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Mental Multiplication and Division	 Count in 10s from 10 Count in tens from any number Find missing multiples of ten in a sequence Count in 2s from different starting numbers. Recognise a sequence and continue it. 	 Count in 2s, 5s and 10s from any number to 100. Recognise multiples of 2, 5 and 10. Describe patterns and begin to investigate general statements 	 Know the 4 times table. Use the 4 times table to learn the 8 times table. Know multiplying by 8 is the same as doubling twice. Know dividing by 8 is the same as halving and halving again. 	 Know multiplication and division facts for the 9 times table Begin to know multiplication and division facts for the 7 times table Use commutativity and known facts to derive new multiplication facts Know the 11 and 12 times tables Know most multiplication facts up to 12 and use commutativity and known facts to derive others Find factors of numbers up to 40 Multiply single-digit numbers by multiples of 10 and 100 eg 4 x 60 6 x 300

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Multiplication	 Find doubles to double 6 and record as an addition; begin to know by heart. Use these facts to work out near doubles. Double numbers up to 20 and explain what they are doing by doubling. 	 Understand multiplication as repeated addition. Record multiplication facts for the 5 times table. Use multiplication sentences to describe an array and groups of numbers on a number line. Imagine what action would be needed to solve a word problem and decide what calculation is necessary (multiplication or division). Draw arrays and number lines to create multiplication word problems 	 Know the 2, 3, 4, 5, 8, 10 times tables off by heart and understand that multiplication can be done in any order. 	 Use the grid method (set out vertically so answers can be added in a column underneath) to multiply 3-digit numbers by single-digit numbers Use expanded column to multiply 3-digit numbers by single-digit numbers Use rounding to approximate an answer

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Division		 Understand grouping and lots of as one model of division. Begin to understand that division can leave some left over eg remainder Use division sentences to describe groups of numbers on a number line. Imagine what action would be needed to solve a word problem and decide what calculation is necessary (multiplication or division). Draw arrays and number lines to create division word problems Understand that division is the inverse of multiplication and use this to check answers 	 Divide whole numbers by 2, 3, 4, 5, 8 or 10, using times tables. Know which calculation to perform (multiplication or division) in order to solve a word problem. Use multiplication or division to solve a word problem 	 Divide 2-digit numbers by single-digit remainders, including those divisions which give a remainder (answers between 10 and 30)

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Fractions	 Find half of numbers up to 24 (links to odds and evens) and understand why it is tricky to halve odd numbers. 	 Find ¹/₂ and ¹/₄ of numbers using objects then by halving and halving again Find ¹/₂, ¹/₄ and 1/3 of amounts by grouping on an empty number line 	 Count in halves and quarters. Locate halves and quarters on a 0-10 number line. Understand fraction of shapes and begin to understand fraction of number. Understand that fractions are part of a whole. Understand the larger the denominator the smaller the fraction. Find unit-fractions using knowledge of multiplication and division: 1/2, 1/4, 1/3, 1/5, 1/8, 1/10. Find non-unit fractions using knowledge of multiplication and division: halves, quarters, thirds, fifths, eights and tenths 	 Identify fractions equivalent to one half Identify fractions equivalent to one quarter Identify equivalent fractions up to twelfths with a supporting image Identify equivalent fifths, tenths and halves and mark them on a line Reduce fractions to their simplest form Identify equivalent fractions and decimals (0.1s, 1/10s and 1/2s) Add and subtract fractions with the same denominators with 2 wholes using a fraction line

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 Compare weights using direct comparison. Order different weights. Estimate and find objects that are heavier and lighter. Use uniform non-standard units to measure weight and estimate how heavy an object is using uniform non-standard units. Measure objects accurately using cubes and compare lengths. Measure lengths of string in cubes, including wiggly lines. Estimate and compare lengths. Find the difference in length using uniform, non-standard units (cubes). Compare and discuss capacities, by direct comparison and understand the vocabulary relating to capacity. Estimate, measure and compare capacities, using cups. Use a uniform, non-standard unit to measure capacity. Find containers that hold a greater capacities from least to greater. Understand how to read a pictogram and write a sentence describing what it shows link to capacity Create a block graph and analyse the results. 	 Compare weights and measure weight using uniform non-standard units Know that weight can be measured in kg and g. Measure weights to the nearest 100g using 100g weights Compare objects with the 100g and kg weights and develop a sense of how heavy these weights are. Estimate and measure capacity in cupful's. Begin to have a sense of a litre and make comparisons between other amounts. Estimate which containers hold more or less than a litre. 	 Measure lengths in m, cm and mm and record. Convert cm into m and cm into mm. Establish weight benchmarks (1kg and 100g) and make estimates. Estimate the order of weights. Read scales to the nearest 100g. Choose appropriate units of measurement to measure objects. 	 Measure lengths in m and cm and record using a decimal point Convert cm into m Measure lengths in cm and mm to one decimal place Convert lengths from km to m and mm to cm Use weight benchmarks to assist with estimating Weigh items in g and kg to the nearest 100g Convert from kg to g and from g to kg Estimate the order of weights Read scales to one decimal place

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Time	 Tell the time to the hour and half hour. Describe what would be happening at different times of the day. Find the time half an hour later. 	 Telling the time to quarter past and quarter to Have an idea of the length of 15, 30 and 60 seconds. Time events in minutes. 	 Tell the time to the nearest minute, past and to. Read analogue and digital time and convert between the two. Tell the time on analogue and digital clocks and match corresponding times. Convert between reading analogue and digital times. Find the time a number of minutes later some crossing the hour. Calculate time intervals, some crossing the hour. Work out time problems. 	 Tell the time on an analogue clock using am and pm Begin to use 24-hour clock and recognise matching times Convert analogue times into digital Convert 24-hour times into 12-hour am/pm times Calculate time intervals using 24-hour clock, crossing the hour Read and work out time intervals on a 24-hour timetable
Geometry and Statistics		 Draw and interpret a block graph. Draw and interpret a pictogram 	 Understand angles as degrees of turn. Use the language clockwise and anticlockwise. Know that a right angle is a quarter turn and four a complete turn. Collect, record and interpret data in a bar chart when one step represents several units. 	 Choose appropriate units of measurement to measure objects Collect, record and interpret data in a bar graph, choosing a suitable scale Plot and write co-ordinates in the first quadrant Complete polygons by giving missing points Describe translations of shapes on a grid and write new co-ordinates