Mount Pleasant Primary School

Maths Medium-Term Plan / Small Steps: Year 3

Autumn	NC	Count from 0 in multiples of 4, 8, 50 and 100; Find 10 or 100 more or less than a given number Compare and order numbers up to 1 000 Identify, represent and estimate numbers using different representations Read and write numbers up to 1 000 in numerals and in words Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Solve number problems and practical problems involving these ideas.	Add and subtract numbers mentally, including: * a three-digit number and ones * a three-digit number and tens * a three-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction 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	**Problem Solving Skills** All possibilities Logic Rules	Count from 0 in multiples of 4, 8, 50 and 100 Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables 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 Estimate the answer to a calculation and use inverse operations to check answers Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
	Small Steps	**Place Value** Represent numbers to 100 Partition numbers to 100 Number line to 100 Hundreds Represent numbers to 1,000 Partition numbers to 1,000 Flexible partitioning of numbers to 1000 Hundreds, tens and ones Find 1, 10 or 100 more or less Number line to 1,000 Estimating on a number line to 1,000 Compare numbers to 1,000 Order numbers to 1,000 Count in 50s	**Addition & Subtraction** Apply number bonds within 10 Add and subtract 1s Add and subtract 10s Add and subtract 100s Spot the pattern Add 1s across a 10 Add 10s across a 100 Subtract 1s across a 10 Subtract 10s across a 100 Make connections Add two numbers (no exchange) Subtract two numbers (no exchange) Add two numbers (across a 10) Add two numbers (across a 100) Subtract two numbers (across a 10) Subtract two numbers (across a 100) Add 2digit and 3 digit numbers Subtract a 2 digit number from a 3 digit number Complements to 100 Estimate answers Inverse operations Make decisions		**Multiplication & Division** Multiplication equal groups Use arrays Multiples of 2 Multiples of 5 and 10 Sharing and grouping Multiply by 3 Divide by 3 The 3 times table Multiply by 4 Divide by 4 The 4 times table Multiply by 8 Divide by 8 The 8 times table The 2, 4 and 8 times tables

Number	Problem Solving Skills	Measurement	Geometry	Statistics

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Spring	**NC**	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 Estimate the answer to a calculation and use inverse operations to check answers Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	Measure, compare, add and subtract: lengths (m/cm/mm) Measure the perimeter of simple 2-D shapes	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Compare and order unit fractions, and fractions with the same denominators Recognise and show, using diagrams, equivalent fractions with small denominators	Measure, compare, add and subtract: mass (kg/g) Measure, compare, add and subtract: volume/capacity (l/ml)
	Small Steps	**Multiplication & Division** consolidate x2, x4, x8 comparing statements related calculations written TO x O written TO ÷ O scaling	**Length & Perimeter** measure length equivalent cm m lengths equivalent mm cm lengths compare lengths add lengths subtract lengths measures perimeter calculate perimeter	**Fractions A** equal parts recognize 1.2 find ½ recognize ¼ find ¼ recognize 1/3 find 1/3 unit fractions non-unit fractions equivalence ½ and 2/4	**Mass & Capacity** measure mass compare mass add and subtract mass measure capacity compare capacity add and subtract capacity temperature

Number	**Problem Solving Skills**	**Measurement**	**Geometry**	**Statistics**

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Summer	NC	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10. Count up and down in tenths Add and subtract fractions with the same denominator within one whole (e.g. 5/7 + 1/7 = 6/7) Solve problems that involve all of the above	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Compare durations of events, for example to calculate the time taken by particular events or tasks Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Know the number of seconds in a minute and the number of days in each month, year and leap year	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Recognise angles as a property of shape or a description of a turn Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions [e.g. 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.
	Small Steps	**Fractions B** make the whole tenths count in tenths tenths as decimals fractions on a numberline fractions of sets of objects equivalent fractions compare fractions order fractions add fractions subtract fractions	**Money** pounds and pence convert pounds and pence add money subtract money give change	**Time** o'clock and half past quarter past, quarter to months and years hours in a day telling time to 5 mins telling time to the min am/pm 24 hr time find duration compare duration start and end times measuring time in seconds problems with time	**Shape** turns and angles right angles in shapes compare angles draw accurately horizontal and vertical parallel and perpendicular recognize and describe 2d recognize and describe 3d make 3d	**Statistics** Pictograms 2, 5 10 Bar charts Tables

Number	Problem Solving Skills	Measurement	Geometry	Statistics