



Mount Pleasant Primary School

Maths Medium-Term Plan / Small Steps: Year 4

Autumn	NC	<p>Count backwards through zero to include negative numbers Count in multiples of 6, 7, 9, 25 and 1 000 Find 1 000 more or less than a given number Order and compare numbers beyond 1 000 Identify, represent and estimate numbers using different representations Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) Round any number to the nearest 10, 100 or 1 000 Solve number and practical problems that involve all the above and with increasingly large positive numbers</p>	<p>Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Estimate and use inverse operations to check answers to a calculation Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why</p>	<p>Problem Solving Skills All possibilities Logic Rules</p>	<p>Find the area of rectilinear shapes by counting squares.</p>	<p>Recall multiplication and division facts for multiplication tables up to 12×12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Recognise and use factor pairs and commutativity in mental calculations Recognise and use factor pairs and commutativity in mental calculations</p>
	Small Steps	<p>Place Value Represent numbers to 1,000 Partition numbers to 1,000 Number line to 1,000 Thousands Represent numbers to 10,000 Partition numbers to 10,000 Flexible partitioning of numbers to 10,000 Find 1, 10, 100, 1,000 more or less Number line to 10,000 Estimate on a number line to 10,000 Compare numbers to 10,000 Order numbers to 10,000 Roman numerals Round to the nearest 10 Round to the nearest 100 Round to the nearest 1,000 Round to the nearest 10, 100 or 1,000</p>	<p>Addition & Subtraction Add and subtract 1s, 10s, 100s and 1,000s Add up to two 4 digit numbers no exchange Add two 4 digit numbers one exchange Add two 4 digit numbers more than one exchange Subtract two 4 digit numbers no exchange Subtract two 4 digit numbers one exchange Subtract two 4 digit numbers more than one exchange Efficient subtraction Estimate answers Checking strategies</p>		<p>Area What is area? Counting squares Make shapes Compare area</p>	<p>Multiplication & Division Multiples of 3 Multiply and divide by 6 6 times table and division facts Multiply and divide by 9 9 times table and division facts The 3, 6 and 9 times tables Multiply and divide by 7 7 times table and division facts 11 times table and division facts 12 times table and division facts Multiply by 1 and 0 Divide by 1 and itself Multiply three numbers</p>

Number

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Spring	NC	<p>Recall multiplication and division facts for multiplication tables up to 12×12</p> <p>Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers</p> <p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p> <p>Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects</p>	<p>Estimate, compare and calculate different measures</p> <p>Convert between different units of measure (kilometre to metre)</p> <p>Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres</p>	<p>Recognise and show, using diagrams, families of common equivalent fractions.</p> <p>Count up and down in hundredths</p> <p>Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</p> <p>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.</p> <p>Add and subtract fractions with the same denominator.</p>	<p>Recognise and write decimal equivalents of any number of tenths or hundredths.</p> <p>Find the effect of dividing a one- or two-digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths</p> <p>Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$</p>
	Small Steps	<p>Multiplication & Division</p> <ul style="list-style-type: none"> x11 and x12 tables multiply 3 numbers factor pairs efficient multiplication written TO x O written HTO x O divide TO by O divide HTO by O correspondence problems 	<p>Length & Perimeter</p> <ul style="list-style-type: none"> recap mm, cm, m kilometres perimeter on a grid perimeter of a rectangle perimeter of rectilinear shapes 	<p>Fractions</p> <ul style="list-style-type: none"> what is a fraction equivalent fractions fractions >1 count in fractions add 2 or more fractions subtract 2 fractions subtract fraction from whole fractions of an amount 	<p>Decimals</p> <ul style="list-style-type: none"> recognize tenths and hundredths tenths as decimals tenths on a pv grid tenths on a numberline divide 1-digit by 10 divide 2-digit by 10 hundredths hundredths as decimals hundredths on a pv grid divide 1 or 2-digit by 10,100

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Summer	NC	Solve simple measure and money problems involving fractions and decimals to two decimal places. Compare numbers with the same number of decimal places up to two decimal places Round decimals with one decimal place to the nearest whole number	Estimate, compare and calculate different measures, including money in pounds and pence Solve simple measure and money problems involving fractions and decimals to two decimal places	Convert between different units of measure [hour to minute] Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days	Identify acute and obtuse angles and compare and order angles up to two right angles by size Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	Describe positions on a 2-D grid as coordinates in the first quadrant Plot specified points and draw sides to complete a given polygon Describe movements between positions as translations of a given unit to the left/ right and up/ down
	Small Steps	Decimals making a whole write decimals compare decimals order decimals round decimals halves & quarters	Money pounds & pence ordering money estimating money four operations	Time telling to 5 mins telling time to the min am/pm 24hr time hours, minutes, seconds years, months, weeks, days analogue to digital	Properties of Shape identify angles compare angles order angles triangles quadrilaterals lines of symmetry complete symmetrical fig	Statistics interpret charts comparison questions sum questions difference questions introducing line graphs line graphs	Position & Direction describe position draw on a grid move on a grid describe movement grid

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