



# Mount Pleasant Primary School

## Maths Medium-Term Plan: Year 4

		Number	Measurement	Geometry	Statistics
Autumn	Unit	<b>Place Value</b> (4 weeks)	<b>Addition &amp; Subtraction</b> (3 weeks)	<b>Length &amp; Perimeter</b> (2 weeks)	<b>Multiplication &amp; Division</b> (3 weeks)
	NC Objectives	Count backwards through zero to include negative numbers Count in multiples of 6, 7, 9, 25 and 1000 Find 1000 more or less than a given number Order and compare numbers beyond 1000 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 1000 Solve number and practical problems that involve all the above and with increasingly large positive numbers	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	Estimate, compare and calculate different measures Convert between different units of measure (kilometre to metre) Measure and calculate the <b>perimeter</b> of a rectilinear figure (including squares) in centimetres and metres	Recall multiplication and division facts for multiplication tables up to $12 \times 12$ 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
	Small Steps	round to nearest 10 round to nearest 100 count in 1000s partitioning 4-digit numberlines to 4-digit 1,000 more and less compare 4-digit-order 4-digit round to nearest 1000 count in 25s negative numbers Roman numerals	add 1s, 10s, 100s, 1000s subtract 1s, 10s, 100s, 1000s column addition 4-digit no exchanging column addition 4-digit 1 exchange column addition 4-digit >1 exchange column subtract 4-digit no exchange column subtract 4-digit one exchange column subtract 4-digit >1 exchange efficient subtraction estimate answers checking strategies	recap mm, cm, m kilometres perimeter on a grid perimeter of a rectangle perimeter of rectilinear shapes	multiply by 10 multiply by 100 divide by 10 divide by 100 multiply by 1 and 0 divide by 1 and itself multiply and divide by 6 6 multiplication and division facts multiply and divide by 9 9 multiplication and division facts multiply and divide by 7 7 multiplication and division facts

**Number**

**Measurement**

**Geometry**

**Statistics**

		Number	Measurement	Geometry	Statistics
<b>Spring</b>	<b>Unit</b>	<b>Multiplication &amp; Division</b> (3 weeks)	<b>Area</b> (1 week)	<b>Fractions</b> (4 weeks)	<b>Decimals</b> (4 weeks)
	<b>NC Objectives</b>	Recall multiplication and division facts for multiplication tables up to $12 \times 12$ 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 Multiply two-digit and three-digit numbers by a one-digit number using formal written layout 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	Find the area of rectilinear shapes by counting squares.	Recognise and show, using diagrams, families of common equivalent fractions. Count up and down in hundredths Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. 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. Add and subtract fractions with the same denominator.	Recognise and write decimal equivalents of any number of tenths or hundredths. 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 Recognise and write decimal equivalents to $\frac{1}{4}$ , $\frac{1}{2}$ and $\frac{3}{4}$
	<b>Small Steps</b>	x11 and x12 tables multiply 3 numbers factor pairs efficient multiplication written $TO \times O$ written $HTO \times O$ divide $TO$ by $O$ divide $HTO$ by $O$ correspondence problems	what is area counting squares making shapes comparing area	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	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

		Number	Measurement	Geometry	Statistics		
Summer	Unit	<b>Decimals</b> (2 weeks)	<b>Money</b> (2 weeks)	<b>Time</b> (2 weeks)	<b>Statistics</b> (1 week)	<b>Properties of Shape</b> (2 weeks)	<b>Position &amp; Direction</b> (3 weeks)
	NC Objectives	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	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	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	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	making a whole write decimals compare decimals order decimals round decimals halves & quarters	pounds & pence ordering money estimating money four operations	telling to 5 mins telling time to the min am/pm 24hr time hours, minutes, seconds years, months, weeks, days analogue to digital	interpret charts comparison questions sum questions difference questions introducing line graphs line graphs	identify angles compare angles order angles triangles quadrilaterals lines of symmetry complete symmetrical fig	describe position draw on a grid move on a grid describe movement grid