



Year 4 Maths Long Term Plan

Autumn Term	
Week & Focus	Objectives
1 Number and Place Value Unit 1	<ul style="list-style-type: none"> • find 1000 more or less than a given number • recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) • order and compare numbers beyond 1000 • identify, represent and estimate numbers using different representations
2 Number and Place Value Unit 5	<ul style="list-style-type: none"> • count backwards through zero to include negative numbers • recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) • order and compare numbers beyond 1000 • round any number to the nearest 10 or 100 • solve number and practical problems that involve all of the above and with increasingly large positive numbers
3 Number and Place Value Unit 9	<ul style="list-style-type: none"> • count backwards through zero to include negative numbers • recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) • order and compare numbers beyond 1000 • round any number to the nearest 10, 100 or 1000 • solve number and practical problems that involve all of the above and with increasingly large positive numbers • 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 • count in multiples of 6, 7, 9, 25 and 1000 • solve problems, including missing number problems, using number facts or /place value up to any 4-digit number.
4 Addition and Subtraction Unit 1	<ul style="list-style-type: none"> • practise mental methods with increasingly large numbers to aid fluency • solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why • solve addition and subtraction one-step problems (up to 4 digits) in context, deciding which operation and methods to use
5 Addition and Subtraction Unit 3	<ul style="list-style-type: none"> • practise mental methods with increasingly large numbers to aid fluency • add numbers with up to 4 digits using the formal written method of columnar addition where appropriate • estimate answers to a calculation • solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
6 Addition and Subtraction Unit 5	<ul style="list-style-type: none"> • practise mental methods with increasingly large numbers to aid fluency • subtract numbers with up to 4 digits using the formal written method of columnar subtraction where appropriate • I can check answers to addition and subtraction sums by estimating and using the inverse • solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
7 Position and Direction Unit 2	<ul style="list-style-type: none"> • describe positions on a 2-D grid as coordinates in the first quadrant • describe movements between positions as translations of a given unit to the left/right and up/down • plot specified points and draw sides to complete a given polygon
8 Position and Direction Unit 11	<ul style="list-style-type: none"> • describe positions on a 2-D grid as coordinates in the first quadrant • plot specified points and draw sides to complete a given polygon



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9 Multiplication and Division Unit 2	<ul style="list-style-type: none">• recall multiplication and division facts for multiplication tables up to 12×12• recognise and use factor pairs and commutativity in mental calculations• count in multiples of 6• know the multiples of the 9x table to write and calculate number equations
10 Multiplication and Division Unit 4	<ul style="list-style-type: none">• recall multiplication and division facts for multiplication tables up to 12×12• use place value, known and derived facts to multiply mentally, including: multiplying by 0 and 1; multiplying together 3 numbers• recognise and use factor pairs and commutativity in mental calculations• multiply two-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• know the multiples of 7 x table to write and calculate number equations
11 Multiplication and Division Unit 6	<ul style="list-style-type: none">• multiply two-digit numbers by a one-digit number using formal written layout• solve problems involving multiplying and adding, including using the distributive law• to solve a range of multiplication and division problems, including, scaling problems eg: there are 6 times as many coats than jumpers• solve harder correspondence problems such as n objects are connected to m objects eg: 3 cakes shared equally between 10 children.• count in multiples of 25 and 1000• to check my answers by rounding• divide 2 digit and 3 digit numbers by 1 digit using concrete manipulatives
12 Measurement (Perimeter and Area) Unit 8	<ul style="list-style-type: none">• measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres• find the area of rectilinear shapes by counting squares• relate area to arrays and multiplication



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Spring Term	
Week & Focus	Objectives
1 Fractions Unit 2	<ul style="list-style-type: none"> recognise and show, using diagrams, families of common equivalent fractions understand the relation between non-unit fractions and multiplication and division of quantities use fractions to calculate quantities of amounts eg: $1/6$ of $12 = 2$
2 Fractions Unit 6	<ul style="list-style-type: none"> extend the use of the number line to connect fractions, numbers and measures understand the relation between non-unit fractions and multiplication and division of quantities, with particular emphasis on tenths and hundredths 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 fractions to divide quantities, including non-unit fractions where the answer is a whole number
3 Fractions Unit 10	<ul style="list-style-type: none"> use factors and multiples to recognise equivalent fractions and simplify where appropriate recognise and show, using diagrams, families of common equivalent fractions add and subtract fractions with the same denominator solve simple measure and money problems involving fractions
4 Properties of Shape Unit 1	<ul style="list-style-type: none"> 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
5 Properties of Shape Unit 5	<ul style="list-style-type: none"> identify acute and obtuse angles and compare and order angles up to two right angles by size
6 Properties of Shape Unit 9	<ul style="list-style-type: none"> compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
7 Decimals (Fraction) Unit 3	<ul style="list-style-type: none"> extend understanding of the number system and decimal place value to tenths recognise and write decimal equivalents of any number of tenths round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places solve simple measure problems involving decimals to two decimal places
8 Decimals (Fractions) Unit 8	<ul style="list-style-type: none"> extend understanding of the number system and decimal place value to hundredths* recognise and write decimal equivalents of any number of hundredths eg: $68/100 = 0.68$ find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths compare numbers with the same number of decimal places up to two decimal places
9 Decimals (Fractions) Unit 11	<ul style="list-style-type: none"> extend understanding of the number system and decimal place value to tenths and then hundredths* recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents for $1/4$, $1/2$ and $3/4$ find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places solve simple measure and money problems involving decimals to two decimal places eg: $1/4$ of a metre = 25 cm, $\pounds 1.25 = 1$ pound and 25 pence



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<p>10 Addition and Subtraction Applied to Money Unit 9</p>	<ul style="list-style-type: none">• 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, including money in pounds and pence
<p>11 Addition and Subtraction Applied to Money Unit 11</p>	<ul style="list-style-type: none">• 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, including money in pounds and pence
<p>12 Measurement (Time) Unit 4</p>	<ul style="list-style-type: none">• convert between different units of measure• 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



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Summer Term	
Week & Focus	Objectives
1 Addition and Subtraction Unit 7	<ul style="list-style-type: none"> practise mental methods with increasingly large numbers to aid fluency * 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
2 Addition and Subtraction Unit 7	<ul style="list-style-type: none"> practise mental methods with increasingly large numbers to aid fluency * 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
3 Statistics Unit 7	<ul style="list-style-type: none"> 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
4 Statistics Unit 12	<ul style="list-style-type: none"> 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
5 Multiplication and Division Unit 4	<ul style="list-style-type: none"> recall multiplication and division facts for multiplication tables up to 12×12 use place value, known and derived facts to multiply mentally, including: multiplying by 0 and 1; multiplying together three numbers recognise and use factor pairs and commutativity in mental calculations multiply two-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 know the multiples of 7 x table to write and calculate number equations
6 Multiplication and Division Unit 8	<ul style="list-style-type: none"> multiply 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
7 Multiplication and Division Unit 10	<ul style="list-style-type: none"> multiply 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
8 Multiplication and Division Unit 12	<ul style="list-style-type: none"> use place value, known and derived facts to divide mentally, including dividing by 1 practise to become fluent in the formal written method of short division with exact answers
9 Multiplication and Division (Algebra) Unit 12	<ul style="list-style-type: none"> 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
10 Measurements (mass) Unit 3	<ul style="list-style-type: none"> convert between different units of measure estimate, compare and calculate different measures
11 Measurements (length) Unit 6	<ul style="list-style-type: none"> convert between different units of measure [for example, kilometre to metre] estimate, compare and calculate different measures
12 Measurements (volume and capacity) Unit 10	<ul style="list-style-type: none"> convert between different units of measure estimate, compare and calculate different measures