

Long term plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place Value			Number Addition and subtraction		Measurement Length Perimeter	Number Multiplication and division		Number Fractions		Geometry Shape	
Spring	Number Place Value		Measurement Money		Geometry Angles and Symmetry		Number Addition and subtraction		Fractions		Measurement Capacity/Mass	
Summer	Number Multiplication and division		Measures Time		Geometry Position and direction	Number Fractions		Number Addition and subtraction, multiplication and division		Statistics		Measurement Area/ Perimeter

Medium term planning

Term 1 – Number Place Value, Addition and Subtraction, Measures Length/Perimeter		
Year 3 objectives	Year 4 objectives	Assessment – performance descriptors
<p>Number and Place Value count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number</p> <p>recognise the place value of each digit in a three-digit number (hundreds, tens, ones)</p> <p>compare and order numbers up to 1000</p> <p>solve number problems and practical problems involving these ideas.</p>	<p>Number and Place Value count in multiples of 6, 7, 9, 25 and 1000</p> <p>find 1000 more or less than a given number</p> <p>count backwards through zero to include negative numbers</p> <p>recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)</p> <p>order and compare numbers beyond 1000</p> <p>solve number and practical problems that involve all of the above and with increasingly large positive numbers</p>	<p>Year 3</p> <ul style="list-style-type: none"> • Understand place value to 1000 • Count from 0 in multiples of 4,8,50 and 100; find 10 or 100 more or less than a given number <p>Year 4</p> <ul style="list-style-type: none"> • Understand place value up to 10000 • Count in multiples of 6,7,9,25 and 1000 • Count back in stated multiples including negative numbers and through 0

<p>Number- Addition and Subtraction</p> <p>add and subtract numbers mentally, including: a three-digit number and ones a three-digit number and tens a three-digit number and hundreds</p> <p>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</p>	<p>Number- Addition and Subtraction</p> <p>add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate</p>	<p>Year 3</p> <ul style="list-style-type: none"> • Add and subtract mentally ones, tens and hundreds to three digits • Use column methods for addition and subtraction up to three digits <p>Year 4</p> <ul style="list-style-type: none"> • Use column methods for addition and subtraction up to four digits
<p>Measurement- Length/Perimeter</p> <p>measure, compare, add and subtract: lengths (m/cm/mm)</p> <p>measure the perimeter of simple 2-D shapes</p>	<p>Measurement- Length/Perimeter</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>Year 3</p> <ul style="list-style-type: none"> • Measure, compare length including perimeter (mm,cm,m) • Calculate the perimeter of simple 2D shapes <p>Year 4</p> <ul style="list-style-type: none"> • Convert between units of measure (length) • Measure and calculate perimeter (and area) of regular rectilinear shapes

Term 2- Number Multiplication and Division, Fractions, Shape		
Year 3 objectives	Year 4 objectives	Assessment – performance descriptors
<p>Number Multiplication and Division</p> <p>recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</p> <p>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</p>	<p>Number Multiplication and Division</p> <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>recognise and use factor pairs and commutativity in mental calculations</p>	<p>Year 3</p> <ul style="list-style-type: none"> Recall and use multiplication and division facts for 3s, 4s and 8 multiplication tables Use mental methods to multiply and divide 2 digit by 1 digit numbers <p>Year 4</p> <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 and divide mentally Use the rules of arithmetic to multiply and divide (associative, commutative and distributive)
<p>Fractions</p> <p>recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators</p>	<p>Fractions</p> <p>recognise and show, using diagrams, families of common equivalent fractions</p> <p>add and subtract fractions with the</p>	<p>Year 3</p> <ul style="list-style-type: none"> Find fractions of shapes and quantities e.g. $\frac{2}{3}$ of 12. Unit fractions and non-unit fractions Recognise and represent equivalent fractions Be able to compare and order simple fractions with the same denominator add and subtract fractions with the same denominator within one whole

<p>recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</p> <p>recognise and show, using diagrams, equivalent fractions with small denominators</p> <p>add and subtract fractions with the same denominator within one whole [for example, $\frac{7}{5} + \frac{7}{1} = \frac{7}{6}$]</p> <p>compare and order unit fractions, and fractions with the same denominators</p>	<p>same denominator</p>	<p>Year4</p> <ul style="list-style-type: none"> recognise and show, using diagrams, families of common equivalent fractions add and subtract fractions with the same denominator within one whole e.g $\frac{5}{6} + \frac{1}{6} =$
<p>Geometry- Properties of Shape</p> <p>draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</p>	<p>Geometry- Properties of Shape</p> <p>compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</p> <p>identify lines of symmetry in 2-D shapes presented in different</p>	<p>Year 3</p> <ul style="list-style-type: none"> Recognise, draw and construct 2D and 3D shapes <p>Year 4</p> <ul style="list-style-type: none"> Compare and classify 2D shapes including triangles Recognise lines of symmetry and complete simple symmetrical figures

	orientations	
	complete a simple symmetric figure with respect to a specific line of symmetry.	

Term 3 – Number Place Value, Measurement Money, Geometry Angles and Symmetry		
Year 3 objectives	Year 4 objectives	Assessment – performance descriptors
<p>Number and Place Value</p> <p>identify, represent and estimate numbers using different representations</p> <p>read and write numbers up to 1000 in numerals and in words</p> <p>solve number problems and practical problems involving these ideas.</p>	<p>Number and Place Value</p> <p>identify, represent and estimate numbers using different representations</p> <p>round any number to the nearest 10, 100 or 1000</p> <p>solve number and practical problems that involve all of the above and with increasingly large positive numbers</p> <p>read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include</p>	<p>Year 3</p> <ul style="list-style-type: none"> • Understand place value to 1000 • Write numbers in numerals and words to 1000 <p>Year 4</p> <ul style="list-style-type: none"> • Understand place value up to 10000 • Round numbers to the nearest 10, 100 and 1000 • Read Roman numerals 1-100 and know that the number system changed over time to include 0

	the concept of zero and place value.	
<p>Measurement- Money</p> <p>add and subtract amounts of money to give change, using both £ and p in practical contexts</p>	<p>Measurement- Money</p> <p>Convert between different units of measure- pounds and pence</p> <p>estimate, compare and calculate different measures, including money in pounds and pence</p>	<p>Year 3</p> <ul style="list-style-type: none"> • Add and subtract measures including money <p>Year 4</p> <ul style="list-style-type: none"> • Convert between units of measure-money • Estimate, measure and calculate
<p>Geometry- Angles</p> <p>recognise angles as a property of shape or a description of a turn</p> <p>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</p>	<p>Geometry- Angles</p> <p>identify acute and obtuse angles and compare and order angles up to two right angles by size</p>	<p>Year 3</p> <ul style="list-style-type: none"> • Understand angles as a measure of turn- quarter, half, three quarters, full • Compare angles more than or less than a right angle <p>Year 4</p> <ul style="list-style-type: none"> • Identify, compare and order angles by size

Term 4 – Number Addition and Subtraction, Fractions, Measurement Capacity/Mass		
Year 3 objectives	Year 4 objectives	Assessment – performance descriptors
<p>Number- Addition and Subtraction</p> <p>estimate the answer to a calculation and use inverse operations to check answers</p> <p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p>	<p>Number- Addition and Subtraction</p> <p>estimate and use inverse operations to check answers to a calculation</p> <p>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</p>	<p>Year 3</p> <ul style="list-style-type: none"> Estimate answers and use inverse to check calculations when solving more complex problems, including missing numbers <p>Year 4</p> <ul style="list-style-type: none"> Estimate answers and use inverse to check calculations Solve two-step problems in different contexts, deciding which methods to use and explain reasoning
<p>Fractions</p> <p>count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</p>	<p>Fractions</p> <p>count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.</p> <p>recognise and write decimal equivalents of any number of tenths or hundredths</p>	<p>Year 3</p> <ul style="list-style-type: none"> Understand tenths in context: find a tenth of an object or quantity, count up and down in tenths <p>Year 4</p> <ul style="list-style-type: none"> count up and down in hundredths recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, tenths and hundredths

	recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$	
Measurement- Mass/Capacity measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml)	Measurement- Mass/Capacity Convert between different units of measure estimate, compare and calculate different measures- mass/capacity	Year 3 <ul style="list-style-type: none"> • Measure, compare mass (kg/g) and volume/capacity (l/ml) • Add and subtract measures (mass/capacity) Year 4 <ul style="list-style-type: none"> • Convert between units of measure • Estimate, measure and calculate (capacity/mass)

Term 5 – Number Multiplication and Division, Measurement Time, Geometry Position and Direction

Year 3 objectives	Year 4 objectives	Assessment – performance descriptors
Number Multiplication and Division 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.	Number Multiplication and Division 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	Year 3 <ul style="list-style-type: none"> • Use short written methods for multiplying and dividing 2 digit by 1 digit numbers • Solve problems including missing numbers, proportion and scaling up or down Year 4 <ul style="list-style-type: none"> • multiply two-digit and three-digit numbers by a one-digit number using formal written layout • Solve 2 step problems in context

	such as n objects are connected to m objects.	
<p>Measurement- Time</p> <p>tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</p> <p>estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight</p> <p>know the number of seconds in a minute and the number of days in each month, year and leap year</p> <p>compare durations of events [for example to calculate the time taken by particular events or tasks].</p>	<p>Measurement- Time</p> <p>read, write and convert time between analogue and digital 12- and 24-hour clocks</p> <p>solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.</p>	<p>Year 3</p> <ul style="list-style-type: none"> • Estimate, record, read and compare units of time • Know the relationship between units of time • Tell and write the analogue and digital time to the nearest minute <p>Year 4</p> <ul style="list-style-type: none"> • read, write and convert time between analogue and digital 12- and 24-hour clocks • Solve problems involving the conversion of units of time
<p>Geometry</p> <p>draw 2-D shapes</p> <p>identify horizontal and vertical</p>	<p>Geometry</p> <p>describe positions on a 2-D grid as coordinates in the first quadrant</p>	<p>Year 3</p> <ul style="list-style-type: none"> • Recognise, construct and draw 2D shapes (consolidation) • identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

<p>lines and pairs of perpendicular and parallel lines.</p>	<p>describe movements between positions as translations of a given unit to the left/right and up/down</p> <p>plot specified points and draw sides to complete a given polygon.</p>	<p>Year4</p> <ul style="list-style-type: none"> • Read, write and use co-ordinates in the first quadrant • Translate simple shapes in the first quadrant
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Term 6 – Number Fractions, Written calculation methods, Statistics, Measures Area and Perimeter		
Year 3 objectives	Year 4 objectives	Assessment- performance descriptors
<p>Fractions</p> <p>solve problems that involve fractions</p>	<p>Fractions</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>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</p> <p>round decimals with one decimal place to the nearest whole number</p>	<p>Year 3</p> <ul style="list-style-type: none"> • Solve problems involving fractions <p>Year 4</p> <ul style="list-style-type: none"> • Find non-unit fractions of quantities • Round, compare and order decimals to 2.d.p

	<p>compare numbers with the same number of decimal places up to two decimal places</p> <p>solve simple measure and money problems involving fractions and decimals to two decimal places.</p>	
<p>Consolidation of written calculation methods</p> <p>solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.</p> <p>solve problems, including missing number problems, involving multiplication and division</p>	<p>Consolidation of written calculation methods</p> <p>solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.</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>Year 3</p> <ul style="list-style-type: none"> Estimate answers and use inverse to check calculations when solving more complex problems, including missing numbers Use short written methods for multiplying and dividing 2 digit by 1 digit numbers Solve problems including missing numbers, proportion and scaling up or down <p>Year 4</p> <ul style="list-style-type: none"> Estimate answers and use inverse to check calculations Solve two-step problems in different contexts, deciding which methods to use and explain reasoning multiply two-digit and three-digit numbers by a one-digit number using formal written layout Solve 2 step problems in context
<p>Statistics</p>	<p>Statistics</p> <p>interpret and present discrete and</p>	<p>Year 3</p> <ul style="list-style-type: none"> interpret and present data using bar charts, pictograms and tables

<p>interpret and present data using bar charts, pictograms and tables</p> <p>solve one-step and two-step questions [for example, ‘How many more?’ and ‘How many fewer?’] using information presented in scaled bar charts and pictograms and tables.</p>	<p>continuous data using appropriate graphical methods, including bar charts and time graphs.</p> <p>solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.</p>	<ul style="list-style-type: none"> • solve one-step and two-step questions [for example, ‘How many more?’ and ‘How many fewer?’] using information presented in scaled bar charts and pictograms and tables. <p>Year 4</p> <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.
<p>Measurement-Area/ Perimeter</p>	<p>Measurement- Area/Perimeter</p> <p>find the area of rectilinear shapes by counting squares</p>	<p>Year 4</p> <ul style="list-style-type: none"> • Measure and calculate the perimeter and area of regular rectilinear shapes