Lancasterian Primary School

A safe and welcoming learning community where:

- we all aim high;
- everyone is included;
- creativity is valued.

KS1/2 Curriculum Map Mathematics

Year	1		
Term	Strand	Unit	Content
Autumn	Number	Unit 1: Numbers to 10	 identify and represent numbers using concrete objects and pictorial representations including the number line, and use the language of equal to, more than, less than (fewer), most, least count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens read and write numbers from 1 to 20 in numerals and words given a number, identify one more and one less
	Number	Unit 2: Part-whole within 10	 represent and use number bonds and related subtraction facts within 20 read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
	Number	Unit 3: Addition and subtraction within 10 (1)	 read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs represent and use number bonds and related subtraction facts within 20 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and solve missing number problems such as 7 = ? - 9
	Number	Unit 4: Addition and subtraction within 10 (2)	 read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs represent and use number bonds and related subtraction facts within 20 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? - 9 add and subtract one-digit and two-digit numbers to 20, including zero
	Geometry	Unit 5: 2D and 3D shapes	 recognise and name common 2D and 3D shapes, including 2D shapes [for example, rectangles (including squares), circles and triangles]; 3D shapes [for example, cuboids (including cubes), pyramids and spheres]
	Number	Unit 6: Numbers to 20	 identify and represent numbers using concrete objects and pictorial representations, including the number line, and use the language of equal to, more than, less than (fewer), most, least count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number recognise the place value of each digit in a two-digit number (tens, ones) (Year 2)



			 compare and order numbers from 0 up to 100; use <, > and = signs (Year 2)
	Number	Unit 7: Addition within 20	 add and subtract one-digit and two-digit numbers to 20, including zero
Spring	Number		 represent and use number bonds and related subtraction facts within 20
Ö			
S			 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial
	Number	Unit 8: Subtraction within 20	representations, and missing number problems
	Number		add and subtract one-digit and two-digit numbers to 20, including zero
			represent and use number bonds and related subtraction facts within 20
			solve one-step problems that involve addition and subtraction, using concrete objects and pictorial
			representations, and missing number problems
	Number	Unit 9: Numbers to 50	• count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
			identify and represent numbers using objects and pictorial representations including the number line,
			and use the language of equal to, more than, less than (fewer), most, least
			 recognise the place value of each digit in a two-digit number (tens, ones) (Year 2)
			given a number, identify one more and one less
			 compare and order numbers from 0 up to 100; use <, > and = signs (Year 2)
			 count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
			solve one-step problems that involve addition and subtraction, using concrete objects and pictorial
			representations, and missing number problems such as 7 = ? – 9
	Measurement	Unit 10: Introducing length and	compare, describe and solve practical problems for lengths and heights [for example, long/short,
		height	longer/shorter, tall/short, double/half]
			measure and begin to record lengths and heights
			 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial
			representations, and missing number problems such as 7 = ? – 9
	Measurement	Unit 11: Introducing weight and	• compare, describe and solve practical problems for lengths and heights [for example, long/short,
		volume	longer/shorter, tall/short, double/half]
			 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial
			representations, and missing number problems such as 7 = ? – 9
			measure and begin to record mass/weight
			measure and begin to record capacity and volume
5	Number	Unit 12: Multiplication	 count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
μ			 solve one-step problems involving multiplication and division, by calculating the answer using concrete
Ē			objects, pictorial representations and arrays, with the support of the teacher
Summer			 non-statutory guidance: pupils use the language of position, direction and motion, including left and
•,			right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and
			down, forwards and backwards, inside and outside
	Number	Unit 13: Division	solve one-step problems involving multiplication and division, by calculating the answer using concrete
			objects, pictorial representations and arrays with the support of the teacher.
	Number	Unit 14: Halves and quarters	 recognise, find and name a half as one of two equal parts of an object, shape or quantity
			 recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.
	Geometry	Unit 15: Position and direction	describe position, direction and movement, including whole, half, quarter and three-quarter turns
	-		 non-statutory guidance: pupils use the language of position, direction and motion, including left and
			right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and
			down, forwards and backwards, inside and outside
	Number	Unit 16: Numbers to 50	count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens
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		 identify and represent numbers using objects and pictorial representations including the number line, and use the language of equal to, more than, less than (fewer), most, least count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number given a number, identify one more and one less recognise the place value of each digit in a two-digit number (tens, ones) (Year 2) represent and use number bonds and related subtraction facts within 20 recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 (Year 2)
Measurement	Unit 17: Time	 sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] recognise and use language relating to dates, including days of the week, weeks, months and years tell the time to the hour and half past the hour and draw the hands on a clock face to show these times measure and begin to record time (hours, minutes, seconds) compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later] solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = ? - 9
Measurement	Unit 18: Money	 recognise and know the value of different denominations of coins and notes count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens

Year	2		
Term	Strand	Unit	Content
Autumn	Number	Unit 1: Numbers to 100	 identify, represent and estimate numbers using different representations, including the number line count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens (Year 1 revision) count in steps of 2, 3, and 5 from 0, and in tens from any number, forwards and backwards recognise the place value of each digit in a two-digit number (tens, ones) compare and order numbers from 0 up to 100; use <, > and = signs
	Number	Unit 2: Addition and subtraction (1)	 recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 recognise the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot add and subtract numbers using concrete objects, pictorial representations and mentally, including a two-digit number and ones count in steps of 2, 3, and 5 from 0, and in tens from any number, forwards and backwards solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures
	Number	Unit 3: Addition and subtraction (2)	 add and subtract numbers using concrete objects, pictorial representations and mentally, including two two-digit numbers solve problems with addition and subtraction, applying increasing knowledge of mental and written methods solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures
	Measurement	Unit 4: Money	 recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value recognise and know the value of different denominations of coins and notes (Year 1) find different combinations of coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
	Number	Unit 5: Multiplication and division (1)	 solve one-step problems involving multiplication and division, by using concrete objects, pictorial representations and arrays, with the support of the teacher (Year 1) calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
Spring	Number	Unit 6: Multiplication and division (2)	 calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context.

	Chatistics	Unit 7. Chatistics	
	Statistics	Unit 7: Statistics	 interpret and construct simple pictograms, tally charts, block diagrams and simple tables
			 ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
			 ask and answer questions about totalling and comparing categorical data
	Measurement	Unit 8: Length and height	 compare and order lengths, mass, volume/capacity and record the results using >, < and =
	Wedstreffent	onit of Length and height	 choose and use appropriate standard units to estimate and measure length/height in any direction
			(m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers,
			scales, thermometers and measuring vessels
			• solve problems with addition and subtraction, using concrete objects and pictorial representations,
			including those involving numbers, quantities and measures
	Geometry	Unit 9: Properties of shape	 compare and sort common 2D and 3D shapes and everyday objects
			• identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a
			vertical line
			 order and arrange combinations of mathematical objects in patterns and sequences
			 identify and describe the properties of 3D shapes, including the number of edges, vertices and faces
	Number	Unit 10: Fractions	• recognise, find and name a half as one of two equal parts of an object, shape or quantity (Year 1)
			• recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or
			quantity $1/2$ of $C = 2$ and recognize the equivalence of $2/4$ and $1/2$
			 write simple fractions, for example 1/2 of 6 = 3, and recognise the equivalence of 2/4 and 1/2 non-statutory guidelines: pupils should count in fractions up to 10, starting from any number
	Geometry	Unit 11: Position and direction	 use mathematical vocabulary to describe position, direction and movement, including movement in a
Jer	Geometry	onit 11. Position and direction	straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half
μu			and three-quarter turns (clockwise and anti-clockwise)
Summer			 order and arrange combinations of mathematical objects in patterns and sequences
S	Number	Unit 12: Problem solving and efficient	use place value and number facts to solve problems
		methods	• solve problems with addition and subtraction, using concrete objects and pictorial representations,
			including those involving numbers, quantities and measures
			recognise and use the inverse relationship between addition and subtraction and use this to check
			calculations and solve missing number problems
			solve problems involving multiplication and division, using materials, arrays, repeated addition, mental
			methods, and multiplication and division facts, including problems in context
			 show that multiplication of two numbers can be done in any order (commutative) and division of one
	Measurement	Unit 13: Time	number by another cannot compare and sequence intervals of time
	Weasurement	Unit 13. Time	 tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.
			(Year 1)
			 tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock
			face to show these times
			 know the number of minutes in an hour and the number of hours in a day
	Measurement	Unit 14: Weight, volume and	• compare and order lengths, mass, volume/capacity and record the results using >, < and =
		temperature	choose and use appropriate standard units to estimate and measure length/height in any direction
			(m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers,
			scales, thermometers and measuring vessels

Year	3		
Term	Strand	Unit	Content
Autumn	Number	Unit 1: Place value within 1,000	 recognise the place value of each digit in a three-digit number (hundreds, tens, ones) read and write numbers up to 1,000 in numerals and in words identify, represent and estimate numbers using different representations count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number solve number problems and practical problems involving these ideas
	Number	Unit 2: Addition and subtraction (1)	 add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction add and subtract numbers with up to three digits formal written methods of columnar addition and subtraction add and subtract numbers mentally, including a three-digit number and ones, a three-digit number
	Number	Unit 3: Addition and subtraction (2)	 add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction estimate the answer to a calculation and use inverse operations to check answers add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds
	Number	Unit 4: Multiplication and division (1)	 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 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <i>n</i> objects are connected to <i>m</i> objects
Spring	Number	Unit 5: Multiplication and division (2)	 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 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which <i>n</i> objects are connected to <i>m</i> objects solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
	Measurement	Unit 6: Money	• add and subtract amounts of money to give change, using both £ and p in practical contexts
	Statistics	Unit 7: Statistics	interpret and present data using bar charts, pictograms and tables

	Measurement Number	Unit 8: Length Unit 9: Fractions (1)	 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 measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g), volume/capacity (l/ml) measure the perimeter of simple 2D shapes recognise and use fractions as numbers; unit fractions and non-unit fractions with small denominators 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 compare and order unit fractions, and fractions with the same denominators solve problems that involve all of the above
Summer	Number	Unit 10: Fractions (2)	 recognise and show, using diagrams, equivalent fractions with small denominators recognise and use fractions as numbers; unit fractions and non-unit fractions with small denominators add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] compare and order unit fractions and fractions with the same denominator solve problems that involve all of the above
	Measurement	Unit 11: Time	 know the number of seconds in a minute and the number of days in each month, year and leap year 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 tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks compare durations of events [for example to calculate the time taken for particular events or tasks]
	Geometry	Unit 12: Angles and properties of shape	 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 make a complete turn; identify whether angles are greater than or less than a right angle draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them identify horizontal and vertical lines and pairs of perpendicular and parallel lines
	Measurement	Unit 13: Mass	measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g), volume/capacity (l/ml)
	Measurement	Unit 14: Capacity	measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g), volume/capacity (l/ml)

Year	4		
Term	Strand	Unit	Content
Autumn	Number	Unit 1: Place value – 4-digit numbers (1)	 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) identify, represent and estimate numbers using different representations round any number to the nearest 10, 100 or 1,000 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
	Number	Unit 2: Place value – 4-digit numbers (2)	 find 1,000 more or less than a given number order and compare numbers beyond 1000 identify, represent and estimate numbers using different representations round any number to the nearest 10, 100 or 1,000 count in multiples of 6, 7, 9, 25 and 1,000 solve number and practical problems that involve all of the above and with increasingly large positive numbers count in multiples of 6, 7, 9, 25 and 1,000 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero count backwards through zero to include negative numbers
	Number	Unit 3: Addition and subtraction	 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction, where appropriate solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why round any number to the nearest 10, 100 or 1,000 estimate and use inverse operations to check answers to a calculation
	Measurement	Unit 4: Perimeter	 convert between different units of measure [for example, kilometre to metre, hour to minute] measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
	Number	Unit 5: Multiplication and division (1)	 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 recall multiplication and division facts for multiplication tables up to 12 × 12 solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.
Spring	Number	Unit 6: Multiplication and division (2)	 solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign multiply two-digit and three-digit numbers by a one-digit number using a formal written layout recognise and use factor pairs and commutativity in mental calculations multiply two-digit and three-digit numbers by a one-digit number using a formal written layout 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 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 <i>n</i> objects are connected to <i>m</i> objects

	Measurement	Unit 7: Area	find the area of rectilinear shapes by counting squares
			 estimate, compare and calculate different measures, including money in pounds and pence
	Number	Unit 8: Fractions (1)	 count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten recognise and show, using diagrams, families of common equivalent fractions 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
	Number	Unit 9: Fractions (2)	 add and subtract fractions with the same denominator solve problems involving increasingly harder fractions to calculate quantities, and use fractions to divide quantities, including non-unit fractions where the answer is a whole number
	Number	Unit 10: Decimals (1)	 recognise and write decimal equivalents of any number of tenths or hundredths solve simple measure and money problems involving fractions and decimals to two decimal places 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 recognise and write decimal equivalents of any number of tenths or hundredths count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten
Summer	Number	Unit 11: Decimals (2)	 recognise and write decimal equivalents of any number of tenths or hundredths add and subtract fractions with the same denominator compare numbers with the same number of decimal places up to two decimal places 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 recognise and write decimal equivalents to 1/4, 1/2, 3/4 solve simple measure and money problems involving fractions and decimals to two decimal places
	Measurement	Unit 12: Money	 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
	Measurement	Unit 13: Time	Convert between different units of measure [for example, kilometre to metre, hour to minute]
	Statistics	Unit 14: Statistics	 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
	Geometry	Unit 15: Angles and 2D shape	 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 2D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry
	Geometry	Unit 16: Position and direction	 describe positions on a 2D 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

Year !	5		
Term	Strand	Unit	Content
Autumn	Number	Unit 1: Place value within 100,000	 read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 solve number problems and practical problems that involve all of the above read Roman numerals to 1,000 (M) and recognise years written in Roman numerals
	Number	Unit 2: Place value within 1,000,000	 read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit solve number problems and practical problems that involve all of the above round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 solve number problems and practical problems that involve all of the above
	Number	Unit 3: Addition and subtraction	 add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy add and subtract numbers mentally with increasingly large numbers solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why estimate and use inverse operations to check answers to a calculation
	Statistics	Unit 4: Graphs and tables	 complete, read and interpret information in tables, including timetables solve comparison, sum and difference problems using information presented in a line graph
	Number	Unit 5: Multiplication and division (1)	 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³), identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000
	Measurement	Unit 6: Area and perimeter	 measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes
Spring	Number	Unit 7: Multiplication and division (2)	 multiply and divide numbers mentally drawing upon known facts multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context

	Number	Unit 8: Fractions (1)	 identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5] compare and order fractions whose denominators are all multiples of the same number
	Number	Unit 9: Fractions (2)	 add and subtract fractions with the same denominator and denominators that are multiples of the same number recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]
	Number	Unit 10: Fractions (3)	 multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams recognise mixed numbers and improper fractions and convert from one form to the other write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]
	Number	Unit 11: Decimals and percentages	 read, write, order and compare numbers with up to three decimal places recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents round decimals with two decimal places to the nearest whole number and to one decimal place recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred' and write percentages as a fraction with denominator 100, and as a decimal
Summer	Number	Unit 12: Decimals	 solve problems that require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25 identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths solve problems involving number up to three decimal places read, write, order and compare numbers with up to three decimal places recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
	Geometry	Unit 13: Geometry – properties of shapes (1)	 identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and 1/2 a turn (total 180°) other multiples of 90° know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees (°) use the properties of rectangles to deduce related facts and find missing lengths and angles
	Geometry	Unit 14: Geometry – properties of shapes (2)	 identify: angles at a point and one whole turn (total 360°) angles at a point on a straight line and 1/2 a turn (total 180°) other multiples of 90° draw given angles, and measure them in degrees (°) use the properties of rectangles to deduce related facts and find missing lengths and angles distinguish between regular and irregular polygons based on reasoning about equal sides and angles identify 3D shapes, including cubes and other cuboids, from 2D representations identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed
	Geometry	Unit 15: Geometry – position and direction	 identify, describe and represent the position of a shape following a reflection or translation, using appropriate language, and know that the shape has not changed

Measurement	Unit 16: Measure – converting units	 metre; centimetre and millimetre; gram and kilogram; litre and millilitre) use all four operations to solve problems involving measure [for example, length, mass, volume, mon using decimal notation, including scaling 	ey]
Measurement	Unit 17: Measure – volume and		r
			metre; centimetre and millimetre; gram and kilogram; litre and millilitre) use all four operations to solve problems involving measure [for example, length, mass, volume, monusing decimal notation, including scaling understand and use approximate equivalences between metric units and common imperial units such inches, pounds and pints solve problems involving converting between units of time Measurement Unit 17: Measure – volume and

Year	Year 6					
Term	Strand	Unit	Content			
Autumn	Number	Unit 1: Place value within 10,000,000	 read, write, order and compare numbers up to 10,000,000 and determine the value of each digit solve number and practical problems that involve all of the above round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero 			
	Number	Unit 2: Four operations (1)	 solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit number using the formal written method of short division, where appropriate, interpreting remainders according to the context divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context 			
	Number	Unit 3: Four operations (2)	 identify common factors, common multiples and prime numbers recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) (Year 5) use their knowledge of the order of operations to carry out calculations involving the four operations perform mental calculations, including with mixed operations and large numbers solve problems involving addition, subtraction, multiplication and division 			
	Number	Unit 4: Fractions (1)	 use common factors to simplify fractions; use common multiples to express fractions in the same denomination compare and order fractions, including fractions > 1 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions 			
	Number Geometry	Unit 5: Fractions (2) Unit 6: Geometry – position and direction	 multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 × 1/2 = 1/8] divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6] add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions use their knowledge of the order of operations to carry out calculations involving the four operations use written division methods in cases where the answer has up to two decimal places describe positions on the full coordinate grid (all four quadrants) 			
Spring	Number	Unit 7: Decimals	 draw and translate simple shapes on the coordinate plane, and reflect them in the axes identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to three decimal places associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8] use written division methods in cases where the answer has up to two decimal places multiply one-digit numbers with up to two decimal places by whole numbers 			

			solve problems that require answers to be rounded to specified degrees of accuracy
	Number	Unit 8: Percentages	 recall and use equivalences between simple fractions, decimals and percentages, including in different contexts solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 × 1/2 = 1/8] multiply one-digit numbers with up to two decimal places by whole numbers compare and order fractions, including fractions > 1 solve problems that require answers to be rounded to specified degrees of accuracy solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison
	Number	Unit 9: Algebra	 generate and describe linear number sequences use simple formulae express missing number problems algebraically use simple formulae find pairs of numbers that satisfy an equation with two unknowns enumerate possibilities of combinations of two variables
	Measurement	Unit 10: Measure – imperial and metric	 use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation up to three decimal places solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places, where appropriate convert between miles and kilometres
	Number	Unit 12: Ratio and proportion	 solve problems involving unequal sharing and grouping using knowledge of fractions and multiples solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts solve problems involving similar shapes where the scale factor is known or can be found
Summer	Geometry	Unit 13: Geometry – properties of shapes	 draw 2D shapes using given dimensions and angles compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons recognise angles where they meet at a point, are on a straight line or are vertically opposite, and find missing angles illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius recognise, describe and build simple 3D shapes, including making nets identify 3D shapes, including cubes and other cuboids, from 2D representations
	Number	Unit 14: Problem solving	 use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy solve problems involving addition, subtraction, multiplication and division solve addition and subtraction multi-step problems in context, deciding which operations and methods to use and why use knowledge of the order of operations to carry out calculations involving the four operations recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

		 solve problems involving unequal sharing and grouping using knowledge of fractions and multiples solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places describe positions on the full coordinate grid (all four quadrants) recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
Statistics	Unit 15: Statistics	 calculate and interpret the mean as an average interpret and construct pie charts and line graphs and use these to solve problems