

YEAR 1 MEDIUM TERM PLANNING - AUTUMN 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Counting	<p>To count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.</p> <ul style="list-style-type: none"> To 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.
		Addition and subtraction to 5 or more (part 1)	<ul style="list-style-type: none"> To read and write numbers from 1 to 20 in numerals and words. When given a number, identify one more and one less To read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
		Addition and subtraction to 5 or more (part 2)	<ul style="list-style-type: none"> To add and subtract one-digit and two-digit numbers to 20, including zero To solve simple one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems
		Addition totals to 10	<ul style="list-style-type: none"> To read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs To represent and use number bonds and related subtraction facts within 20 To add and subtract one-digit and two-digit numbers to 20 ($9 + 9$, $18 - 9$) including zero
		Properties of shape	<ul style="list-style-type: none"> To recognise and name common 2D and 3D shapes, including: 2D shapes (rectangles (including squares), circles and triangles) 3D shapes (cuboids (including cubes), pyramids and spheres)
		Addition and subtraction to 10	<ul style="list-style-type: none"> To represent and use number bonds and related subtraction facts within 20 To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = \quad - 9$

YEAR 1 MEDIUM TERM PLANNING - AUTUMN 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Counting and number order	<ul style="list-style-type: none"> To count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number To count, read and write numbers to 100 in numerals, count in multiples of twos, fives and tens. To 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. To read and write numbers from 1 to 20 in numerals and words
		Place value and comparing quantities and numbers	<ul style="list-style-type: none"> When given a number, identify one more and one less To 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. To read and write numbers from 1 to 20 in numerals and words
		Developing mental strategies for addition	<ul style="list-style-type: none"> To read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs To represent and use number bonds and related subtraction facts within 20 To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems
		Subtraction as difference	<ul style="list-style-type: none"> To read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs To represent and use number bonds and related subtraction facts within 20 To add and subtract one-digit and two-digit numbers to 20, including zero To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems
		Measures	<ul style="list-style-type: none"> To compare, describe and solve practical problems for: <ul style="list-style-type: none"> Lengths and heights (long/short, longer/shorter, tall/short, double/half) Mass or weight (heavy/light, heavier than, lighter than) Capacity/volume (full/empty, more than, less than, quarter) Time (quicker, slower, earlier, later) To recognise and know the value of different denominations of coins and notes
		Addition and subtraction using money	<ul style="list-style-type: none"> To read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs To represent and use number bonds and related subtraction facts within 20 To add and subtract one-digit and two-digit numbers to 20, including zero To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems

YEAR 1 MEDIUM TERM PLANNING SPRING 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Counting, reading and writing number patterns	<ul style="list-style-type: none"> To count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number To count, read and write numbers to 100 in numerals, count in multiples of twos, fives and tens. When given a number, identify one more and one less To read and write numbers from 1 to 20 in numerals and words
		Doubles and near doubles	<ul style="list-style-type: none"> To represent and use number bonds and related subtraction facts within 20 To add and subtract one-digit and two-digit numbers to 20, including zero To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems
		Grouping and sharing	<ul style="list-style-type: none"> To solve one-step problems involving multiplication and division, calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
		Fractions	<ul style="list-style-type: none"> To recognise, find and name a half as one of two equal parts of an object, shape or quantity
		Measures, including time	<ul style="list-style-type: none"> To sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening To tell the time to the hour and half past the hour and draw the hands on a clock face to show these times To measure and begin to record the following: <ul style="list-style-type: none"> Lengths and heights Mass/weight Capacity and volume Time (hours, minutes, seconds)
		Addition and subtraction	<ul style="list-style-type: none"> To add and subtract one-digit and two-digit numbers to 20, including zero To solve one-step problems that involve addition and subtraction, using objects and pictorial representations, and missing number problems

YEAR 1 MEDIUM TERM PLANNING – SPRING 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Counting and place value	<ul style="list-style-type: none"> To count, read and write numbers to 100 in numerals, count in different multiples including ones, twos, fives and tens When given a number, identify one more and one less To 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
		Addition and subtraction beyond totals of 10	<ul style="list-style-type: none"> To add and subtract one-digit and two-digit numbers to 20, including zero To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems
		Grouping and sharing	<ul style="list-style-type: none"> To solve one-step problems involving multiplication and division, calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
		Shape, position and movement	<ul style="list-style-type: none"> To recognise and name common 2D and 3D shapes, including: <ul style="list-style-type: none"> 2D shapes (rectangles (including squares), circles and triangles) 3D shapes (cuboids (including cubes), pyramids and spheres) To describe position, directions and movements, including half, quarter and three-quarter turns
		Measuring and time	<ul style="list-style-type: none"> To compare, describe and solve practical problems for: <ul style="list-style-type: none"> Lengths and heights (long/short, longer/shorter, tall/short, double/half) Mass or weight (heavy/light, heavier than, lighter than) Capacity/volume (full/empty, more than, less than, quarter) Time (quicker, slower, earlier, later) To measure and begin to record the following: <ul style="list-style-type: none"> Lengths and heights Mass/weight Capacity and volume Time (hours, minutes, seconds) To sequence events in chronological order using language such as: before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening
		Addition and subtraction totals to 10	<ul style="list-style-type: none"> To add and subtract one-digit and two-digit numbers to 20, including zero To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems

YEAR 1 MEDIUM TERM PLANNING - SUMMER 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Addition to totals to 10	<ul style="list-style-type: none"> To count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number To count, read and write numbers to 100 in numerals, count in multiples of twos, fives and tens To 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 To read and write numbers from 1 to 20 in numerals and words
		Addition and subtraction to 20	<ul style="list-style-type: none"> To represent and use number bonds and related subtraction facts within 20 To add and subtract one-digit and two-digit numbers to 20, including zero To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems
		Fractions	<ul style="list-style-type: none"> To recognise, find and name a half as one of two equal parts of an object, shape or quantity To recognise, find and name a quarter as one of four equal parts of an object, shape or quantity
		Multiplication and division	<ul style="list-style-type: none"> To solve one-step problems involving multiplication and division, calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
		Measuring	<ul style="list-style-type: none"> To measure and begin to record the following: <ul style="list-style-type: none"> Lengths and heights Mass/weight Capacity and volume Time (hours, minutes, seconds)
		Moving and turning	<ul style="list-style-type: none"> To describe position, directions and movements, including half, quarter and three-quarter turns

YEAR 1 MEDIUM TERM PLANNING - SUMMER 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number and place value	<ul style="list-style-type: none"> When given a number, identify one more and one less To 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
		Addition and subtraction	<ul style="list-style-type: none"> To add and subtract one-digit and two-digit numbers to 20, including zero To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems
		Fractions	<ul style="list-style-type: none"> To recognise, find and name a half as one of two equal parts of an object, shape or quantity To recognise, find and name a quarter as one of four equal parts of an object, shape or quantity
		Multiplication and division	<ul style="list-style-type: none"> To solve one-step problems involving multiplication and division, calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
		Time and using standard units	<ul style="list-style-type: none"> To measure and begin to record the following: <ul style="list-style-type: none"> Lengths and heights Mass/weight Capacity and volume Time (hours, minutes, seconds) To recognise and use language relating to dates, including days of the week, weeks, months and years To tell the time to the hour and half past the hour and draw the hands on a clock face to show these times
		Addition to totals to 10	<ul style="list-style-type: none"> To order and arrange combinations of objects and shapes in patterns To recognise and name common 2D and 3D shapes, including: <ul style="list-style-type: none"> 2D shapes (rectangles (including squares), circles and triangles) 3D shapes (cuboids (including cubes), pyramids and spheres)

YEAR 2 MEDIUM TERM PLANNING - AUTUMN 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number and place value: counting, reading and writing 2-digit numbers, place value	<ul style="list-style-type: none"> To count in steps of 2, 3 and 5 from 0, and count in tens from any number, forward or backward To recognise the place value of each digit in a two-digit number (tens, ones) To identify, represent and estimate numbers using different representations, including the number line To compare and order numbers from 0 up to 100; use <, > and = signs To read and write numbers to at least 100 in numerals and in words To use place value and number facts to solve problems
		Addition: concrete, visual and number facts	<ul style="list-style-type: none"> To solve problems with addition and subtraction: <ul style="list-style-type: none"> Using concrete objects and pictorial representations, including those involving numbers, quantities and measures Applying their increasing knowledge of mental and written methods To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers To show that addition can be done in any order (commutative) and subtraction cannot To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
		Subtraction: concrete, visual and number facts	<ul style="list-style-type: none"> To solve problems with addition and subtraction: <ul style="list-style-type: none"> Using concrete objects and pictorial representations, including those involving numbers, quantities and measures Applying their increasing knowledge of mental and written methods To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a 2-digit number and tens; two two-digit numbers; adding three one-digit numbers To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
		Multiplication and division: repeated addition and repeated subtraction	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers To calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication, division and equals signs To recognise and use the inverse relationship between multiplication and division in calculations To show that multiplication of two numbers can be done in any order (commutative) and division for one number by another cannot To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts
		Geometry: properties of 3D and 2D shape	<ul style="list-style-type: none"> To identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line To identify and describe the properties of 3D shapes including the number of edges, vertices and faces To identify 2D shapes on the surface of 3D shapes, for example circle on a cylinder and a triangle on a pyramid To compare and sort common 2D and 3D shapes and everyday objects
		Measures: length, mass, capacity, money	<ul style="list-style-type: none"> To choose and use appropriate standard units to estimate and measure length/height in any direction; mass; temperature; volume and capacity to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels To compare and order lengths, mass, volume/capacity and record the results using >, < and = To recognise and use the symbols for pounds and pence; combine amounts to make a particular value To find different combinations of coins that equal the same amounts of money To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change

YEAR 2 MEDIUM TERM PLANNING – AUTUMN 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number and place value: comparing, ordering two-digit numbers and knowing their place value	<ul style="list-style-type: none"> To count in steps of 2, 3 and 5 from 0, and count in tens from any number, forward or backward To recognise the place value of each digit in a two-digit number (tens, ones) To identify, represent and estimate numbers using different representations, including the number line To compare and order numbers from 0 up to 100; use <, > and = signs To read and write numbers to at least 100 in numerals and in words To use place value and number facts to solve problems
		Addition and subtraction: using recall of addition and subtraction facts and mental calculation strategies	<ul style="list-style-type: none"> To solve problems with addition and subtraction: <ul style="list-style-type: none"> Using concrete objects and pictorial representations, including those involving numbers, quantities and measures Applying their increasing knowledge of mental and written methods To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones; a two-digit number and tens; two two-digit numbers; adding three one-digit numbers To show that addition can be done in any order (commutative) and subtraction cannot To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
		Multiplication and division: repeated addition and subtraction, arrays, grouping and using times tables facts	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), Division (÷) and equals (=) signs To recognise and use the inverse relationship between multiplication and division in calculations To show that multiplication of two numbers can be done in any order (commutative) and division for one number by another cannot To solve one-step problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts
		Fractions: finding fractions of quantities, shapes and sets of objects	<ul style="list-style-type: none"> To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ To write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of two quarters and one half
		Geometry: position, direction, motion Measures: time	<ul style="list-style-type: none"> To order and arrange combinations of mathematical objects in patterns To use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three quarter turns (clockwise and anti-clockwise) and movement in straight line To compare and sequence intervals of time To 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
		Data: solving problems that involve collecting data in tallies, tables and pictograms	<ul style="list-style-type: none"> To interpret and construct simple pictograms, tally charts, block diagrams and simple tables To ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity To ask and answer questions about totalling and compare categorical data

YEAR 2 MEDIUM TERM PLANNING - SPRING 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number and place value: estimating, counting and comparing quantities	<ul style="list-style-type: none"> To count in steps of 2, 3 and 5 from 0, and count in tens from any number, forward or backward To recognise the place value of each digit in a 2-digit number (tens, ones) To identify, represent and estimate numbers using different representations, including the number line To compare and order numbers from 0 up to 100, use $<$, $>$ and $=$ signs To read and write numbers to at least 100 in numerals and in words To use place value and number facts to solve problems
		Addition and subtraction: using recall of addition and subtraction facts and mental calculation strategies	<ul style="list-style-type: none"> To solve problems with addition and subtraction: <ul style="list-style-type: none"> Using concrete objects and pictorial representations, including those involving numbers, quantities and measures Applying their increasing knowledge of mental and written methods To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones, a 2-digit number and tens; two 2-digit numbers; adding three one-digit numbers To show that addition can be done in any order (commutative) and subtraction cannot To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
		Addition and subtraction: using partitioning and counting on strategies	<ul style="list-style-type: none"> To solve problems with addition and subtraction Using concrete objects and pictorial representations, including those involving numbers, quantities and measures Applying their increasing knowledge of mental and written methods To add and subtract using concrete objects, pictorial representations, and mentally, including: a 2-digit number and ones; a 2-digit number and tens; two 2-digit numbers; adding three one-digit numbers To show that addition can be done in any order (commutative) and subtraction cannot To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
		Multiplication and division: repeated addition and subtraction, arrays, grouping and using times tables facts	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs To recognise and use the inverse relationship between multiplication and division in calculations To show that multiplication of two numbers can be done in any order (commutative) and division for one number by another cannot To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts
		Geometry: properties of 3D and 2D shape	<ul style="list-style-type: none"> To identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line To identify and describe the properties of 3D shapes including the number of edges, vertices and faces To identify 2D shapes on the surface of 3D shapes, for example circle on a cylinder and a triangle on a pyramid
		Measures: length, mass, capacity and money	<ul style="list-style-type: none"> To choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm/mm); mass (kg/g); temperature ($^{\circ}\text{C}$); volume and capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels To compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$

YEAR 2 MEDIUM TERM PLANNING – SPRING 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number and place value: estimating, counting, comparing and ordering quantities	<ul style="list-style-type: none"> To count in steps of 2, 3 and 5 from 0, and count in tens from any number, forward or backward To recognise the place value of each digit in a 2-digit number (tens, ones) To identify, represent and estimate numbers using different representations, including the number line To compare and order numbers from 0 up to 100; use <, > and = signs To read and write numbers to at least 100 in numerals and in words To use place value and number facts to solve problems
		Addition and subtraction: using mental calculation strategies	<ul style="list-style-type: none"> To solve problems with addition and subtraction: <ul style="list-style-type: none"> Using concrete objects and pictorial representations, including those involving numbers, quantities and measures Applying their increasing knowledge of mental and written methods To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 To add and subtract using concrete objects, pictorial representations, and mentally, including: a 2-digit number and ones; a 2-digit number and tens; two 2-digit numbers; adding three 1-digit numbers. To show that addition can be done in any order (commutative) and subtraction cannot To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
		Multiplication and division: repeated addition and subtraction, arrays, grouping and using times tables facts	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs To recognise and use the inverse relationship between multiplication and division in calculations To show that multiplication of two numbers can be done in any order (commutative) and division for one number by another cannot To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts
		Fractions: finding fractions of quantities, shapes and sets of objects	<ul style="list-style-type: none"> To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ To write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of two quarters and one half
		Geometry: position and direction Measures: time	<ul style="list-style-type: none"> To use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three quarter turns (clockwise and anti-clockwise) and movement in a straight line To 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
		Statistics: solving problems that involve collecting data in tallies, tables and pictograms	<ul style="list-style-type: none"> To interpret and construct simple pictograms, tally charts, block diagrams and simple tables To ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity To ask and answer questions about totalling and compare categorical data

YEAR 2 MEDIUM TERM PLANNING - SUMMER 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number and place value: estimating, counting, comparing and ordering quantities	<ul style="list-style-type: none"> To recognise the place value of each digit in a 2-digit number (tens, ones) To identify, represent and estimate numbers using different representations, including the number line To compare and order numbers from 0 up to 100; use <, > and = signs To read and write numbers to at least 100 in numerals and in words
		Addition and subtraction: using mental calculation strategies	<ul style="list-style-type: none"> To solve problems with addition and subtraction <ul style="list-style-type: none"> Using concrete objects and pictorial representations, including those involving numbers, quantities and measures Applying their increasing knowledge of mental and written methods To add and subtract using concrete objects, pictorial representations, and mentally, including: a 2-digit number and ones; a 2-digit number and tens; two 2-digit numbers; adding three one-digit numbers To show that addition can be done in any order (commutative) and subtraction cannot To recognise and use the inverse relationship between multiplication and division in calculations To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts
		Multiplication and division: repeated addition and subtraction, arrays, grouping and using times tables facts	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs To recognise and use the inverse relationship between multiplication and division in calculations To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts
		Fractions: finding fractions of quantities, shapes and sets of objects	<ul style="list-style-type: none"> To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ To write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of two quarters and one half
		Geometry: properties of 3D and 2D shape	<ul style="list-style-type: none"> To identify and describe the properties of 2D and 3D shapes, including the number of sides, symmetry in a vertical line, edges, vertices and faces To identify 2D shapes on the surface of 3D shapes, for example circle on a cylinder and a triangle on a pyramid To compare and sort common 2D and 3D shapes and everyday objects To solve one-step problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts
		Measures: length, mass (weight), capacity and money	<ul style="list-style-type: none"> To choose and use appropriate standard units to estimate and measure length/height in any direction; mass; temperature; volume and capacity to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels To compare and order lengths, mass, volume/capacity and record the results using >, < and = To recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value To find different combinations of coins to equal the same amounts of money To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change

YEAR 2 MEDIUM TERM PLANNING - SUMMER 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number and place value: estimating, counting, comparing and ordering quantities	<ul style="list-style-type: none"> To recognise the place value of each digit in a 2-digit number (tens, ones) To identify, represent and estimate numbers using different representations, including the number line To compare and order numbers from 0 up to 100; use <, > and = signs To read and write numbers to at least 100 in numerals and in words To use place value and number facts to solve problems
		Addition and subtraction: using partitioning and sequencing	<ul style="list-style-type: none"> To solve problems with addition and subtraction <ul style="list-style-type: none"> Using concrete objects and pictorial representations, including those involving numbers, quantities and measures Applying their increasing knowledge of mental and written methods To add and subtract using concrete objects, pictorial representations, and mentally, including: a 2-digit number and ones; a 2-digit number and tens; two 2-digit numbers; adding three one-digit numbers To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
		Fractions: finding fractions of quantities, shapes and sets of objects	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers To calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs To recognise and use the inverse relationship between multiplication and division in calculations To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts
		Finding fractions of quantities, shapes and sets of objects	<ul style="list-style-type: none"> To recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ To write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of two quarters and one half
		Geometry: position and direction Measures: time	<ul style="list-style-type: none"> To order and arrange combinations of mathematical objects in patterns To use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three quarter turns (clockwise and anti-clockwise) and movement in a straight line To compare and sequence intervals of time To 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
		Solving problems by gathering data and representing in tallies, tables, pictograms and block diagrams	<ul style="list-style-type: none"> To interpret and construct simple pictograms, tally charts, block diagrams and simple tables To ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity To ask and answer questions about totalling and compare categorical data

YEAR 3 MEDIUM TERM PLANNING – AUTUMN 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Reading, writing and ordering two and three-digit numbers	<ul style="list-style-type: none"> To recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) To compare and order numbers up to 1000 To read and write numbers up to 1000 in numerals and in words
		Counting and estimating	<ul style="list-style-type: none"> To count from 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number To identify, represent and estimate numbers using different representations
		Number facts to 20 and to 100 Addition and Subtraction of 1 and 2-digit numbers	<ul style="list-style-type: none"> To add and subtract numbers mentally, including: <ul style="list-style-type: none"> A three-digit number and ones A three-digit number and tens A three-digit number and hundreds To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
		Multiplication and division facts	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables To write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times one-digit numbers, using mental and progressing to formal written methods To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects
		Measuring using mm, cm and metres	<ul style="list-style-type: none"> To measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) To measure the perimeter of simple 2D shapes
		Recognising, describing and making 2D and 3D shapes	<ul style="list-style-type: none"> To draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them with increasing accuracy To identify horizontal, vertical, perpendicular and parallel lines in relation to other lines

YEAR 3 MEDIUM TERM PLANNING – AUTUMN 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Counting and estimating	<ul style="list-style-type: none"> To add and subtract numbers mentally, including: <ul style="list-style-type: none"> - A 3-digit number and ones - A 3-digit number and tens - A 3-digit number and hundreds To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
		Addition and subtraction of two and three-digit numbers, using a number line and columns	<ul style="list-style-type: none"> To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction To estimate the answer to a calculation and use inverse operations to check answers To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
		Multiplication and division: doubling, halving and TU x U	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables To write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times one-digit numbers, using mental and progressing to formal written methods To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects
		Fractions: representing, comparing and ordering unit fractions of shapes and numbers	<ul style="list-style-type: none"> To recognise, find and write fractions of a discreet set of objects: unit fractions and non-unit fractions with small denominators To recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators To compare and order unit fractions, and fractions with the same denominators To solve problems that involve all of the above
		Read and write time to 5 minute intervals	<ul style="list-style-type: none"> To tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks To estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon and midnight To know the number of seconds in a minute and the number of days in each month, year and leap year To compare durations of events, for example to calculate the time taken by particular events or tasks
		Read, present and interpret pictograms and tables	<ul style="list-style-type: none"> To interpret and present data using bar charts, pictograms and tables To solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.

YEAR 3 MEDIUM TERM PLANNING – SPRING 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number, place value and rounding	<ul style="list-style-type: none"> To count from 0 in multiples of 4, 8 50 and 100; finding 10 or 100 more or less than a given number To recognise the place value of each digit in a three-digit number (hundreds, tens, ones) To compare and order numbers up to 1000 To identify, represent and estimate numbers using different representations To read and write numbers up to 1000 in numerals and in words To solve number problems and practical problems involving these ideas
		Use partitioning to add and subtract two-digit numbers	<ul style="list-style-type: none"> To add and subtract numbers mentally, including: <ul style="list-style-type: none"> A three-digit number and ones A three-digit number and tens A three-digit number and hundreds To estimate the answer to a calculation and use inverse operations to check answers To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
		Multiplication and division: multiplying one-digit numbers by multiples of 10	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables To 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 To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects
		Multiplication and division: practical and informal written methods	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables To 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. To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects
		Measures: adding and subtracting money	<ul style="list-style-type: none"> To add and subtract amounts of money to give change, using both £ and p in practical contexts
		Recognising and drawing right angles in 2D shapes	<ul style="list-style-type: none"> To recognise angles as a property of shape and associate angles with turning. To 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.

YEAR 3 MEDIUM TERM PLANNING – SPRING 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Addition and subtraction of two-digit numbers using columns	<ul style="list-style-type: none"> To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction To estimate the answer to a calculation and use inverse operations to check answers To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
		Multiplication and division: multiplying by multiples of 10, dividing with remainders	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables To 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 To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects
		Multiplication and division: multiplying and dividing larger numbers	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables To 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 To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects
		Measuring using grams and kilograms	<ul style="list-style-type: none"> To measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
		Fractions: representing, comparing and ordering unit and non-unit fractions of shapes and numbers	<ul style="list-style-type: none"> To 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 To recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators To recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators To recognise and show, using diagrams, equivalent fractions with small denominators To compare and order unit fractions, and fractions with the same denominators To solve problems that involve all of the above
		Read and interpret bar charts, using scales	<ul style="list-style-type: none"> To interpret and present data using bar charts, pictograms and tables To solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables.

YEAR 3 MEDIUM TERM PLANNING - SUMMER 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Read, write and order and round two and three-digit numbers	<ul style="list-style-type: none"> To count from 0 in multiples of 4, 8, 50 and 100; finding 10 or 100 more or less than a given number To recognise the place value of each digit in a three-digit number (hundreds, tens, ones) To compare and order numbers up to 1000 To identify, represent and estimate numbers using different representations To read and write numbers up to 1000 in numerals and in words To solve number problems and practical problems involving these ideas
		Multiplication and division problems	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. To 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 To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects
		Addition and subtraction of three-digit numbers and 1s, 10s and 100s	<ul style="list-style-type: none"> To add and subtract numbers mentally, including: <ul style="list-style-type: none"> A three-digit number and ones A three-digit number and tens A three-digit number and hundreds To estimate the answer to a calculation and use inverse operations to check answers To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
		Shape: identifying horizontal, vertical, and curved lines	<ul style="list-style-type: none"> To draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them with increasing accuracy To recognise angles as a property of shape and associate angles with turning To 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 To identify horizontal, vertical, perpendicular and parallel lines in relation to other lines
		Measuring using millilitres and litres	<ul style="list-style-type: none"> To measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

YEAR 3 MEDIUM TERM PLANNING - SUMMER 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Addition and subtraction of two and three-digit numbers using columns	<ul style="list-style-type: none"> To add and subtract numbers with up to three digits, using the efficient written methods of columnar addition and subtraction To estimate the answer to a calculation and use inverse operations to check answers To solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction
		Multiplication and division problems: written methods	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables To 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 To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects
		Short multiplication and division	<ul style="list-style-type: none"> To recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables To 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. To solve problems, including missing number problems, involving multiplication and division, including integer scaling problems and correspondence problems in which n objects are connected to m objects
		Fractions: equivalence, addition and subtraction within 1, finding tenths	<ul style="list-style-type: none"> To 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 To recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators To recognise and show, using diagrams, equivalent fractions with small denominators To add and subtract fractions with the same denominator within one whole ($5/7 + 1/7 = 6/7$) To solve problems that involve all of the above
		Read and write time using 12 and 24 hour	<ul style="list-style-type: none"> To tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks To estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as am/pm, morning, afternoon, noon and midnight To know the number of seconds in a minute and the number of days in each month, year and leap year To compare durations of events, for example to calculate the time taken by particular events or tasks
		Construct and interpret bar charts using scales	<ul style="list-style-type: none"> To interpret and present data using bar charts, pictograms and tables To solve one-step and two-step questions such as 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables

YEAR 4 MEDIUM TERM PLANNING – AUTUMN 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number, place value and rounding	<ul style="list-style-type: none"> To recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) To identify, represent and estimate numbers using different representations To order and compare numbers beyond 1000 To round any number to the nearest 10, 100 or 1000 To count in multiples of 6, 7, 9, 25 and 1000 To find 1000 more or less than a given number
		Mental addition and subtraction	<ul style="list-style-type: none"> To add and subtract numbers with up to four digits using the efficient written methods of columnar addition and subtraction where appropriate To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
		Multiplication	<ul style="list-style-type: none"> To recall multiplication facts for multiplication tables up to 12 x 12 To 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
		Geometry: properties of shapes	<ul style="list-style-type: none"> To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes To identify lines of symmetry in 2D shapes presented in different orientations To complete a simple symmetric figure with respect to a specific line of symmetry
		Measures	<ul style="list-style-type: none"> To convert between different units of measure (for example, kilometre to metre; hour to minute) To measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres To solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days To estimate, compare and calculate different measures, including money in pounds and pence

YEAR 4 MEDIUM TERM PLANNING - AUTUMN 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Mental and written addition and subtraction	<ul style="list-style-type: none"> To add and subtract numbers with up to four digits using the efficient written methods of columnar addition and subtraction where appropriate To estimate and use inverse operations to check answers to a calculation To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
		Multiplication	<ul style="list-style-type: none"> To recall multiplication facts for multiplication tables up to 12 x 12 To 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 To recognise and use factor pairs and commutativity in mental calculations To multiply two-digit and three-digit numbers by a one-digit number using formal written layout To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects
		Multiplication and division	<ul style="list-style-type: none"> To recall multiplication facts for multiplication tables up to 12 x 12 To 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 To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects
		Fractions	<ul style="list-style-type: none"> To count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten. To solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-fractions where the answer is a whole number To recognise and show, using diagrams, families of common equivalent fractions
		Geometry	<ul style="list-style-type: none"> To describe positions on a 2D grid as coordinates in the first quadrant To plot specified points and draw sides to complete a given polygon To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes To identify acute and obtuse angles and compare and order angles up to two right angles by size
		Data handling and time	<ul style="list-style-type: none"> To read, write and convert time between analogue and digital 12 and 24-hour clocks To solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days To interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs To solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and simple line graphs

YEAR 4 MEDIUM TERM PLANNING – SPRING 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Number, place value and rounding	<ul style="list-style-type: none"> To find 1000 more or less than a given number To recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) To order and compare numbers beyond 1000 To identify, represent and estimate numbers using different representations To round any number to the nearest 10, 100 or 1000 To solve number and practical problems that involve all of the above and with increasingly large positive numbers To read Roman numerals to 100 (I to C) and understand how, over time, the numeral system changed to include the concept of zero and place value
		Mental and written addition and subtraction	<ul style="list-style-type: none"> To add and subtract numbers with up to four digits using the efficient written methods of columnar addition and subtraction where appropriate To estimate and use inverse operations to check answers to a calculation To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why To estimate, compare and calculate different measures, including money in pounds and pence
		Mental and written multiplication	<ul style="list-style-type: none"> To recall multiplication and division facts for multiplication tables up to 12 x 12 To 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 To multiply two-digit and three-digit numbers by a one-digit number using formal written layout To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects
		Mental and written division	<ul style="list-style-type: none"> To recall multiplication and division facts for multiplication tables up to 12 x 12 To 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
		Fractions	<ul style="list-style-type: none"> To count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten To 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 To recognise and show, using diagrams, families of common equivalent fractions
		Fractions and decimals	<ul style="list-style-type: none"> To recognise and write decimal equivalents of any number of tenths or hundredths To recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ To 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 units, tenths and hundredths To round decimals with one decimal place to the nearest whole number To compare numbers with the same number of decimal places up to two decimal places To solve simple measure and money problems involving fractions and decimals to two decimal places

YEAR 4 MEDIUM TERM PLANNING - SPRING 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Mental calculation	<ul style="list-style-type: none"> To estimate and use inverse operations to check answers to a calculation To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why To recall multiplication and division facts for multiplication tables up to 12 x 12 To recognise and use factor pairs and commutativity in mental calculations To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects
		Written addition and subtraction	<ul style="list-style-type: none"> To add and subtract numbers with up to four digits using the efficient written methods of columnar addition and subtraction where appropriate To estimate and use inverse operations to check answers to a calculation To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
		Time	<ul style="list-style-type: none"> To read, write and convert time between analogue and digital 12 and 24-hour clocks. To solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
		Written multiplication and division	<ul style="list-style-type: none"> To recall multiplication and division facts for multiplication tables up to 12 x 12 To 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 To multiply two-digit and three-digit numbers by a one-digit number using formal written layout To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects
		Geometry	<ul style="list-style-type: none"> To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes To identify acute and obtuse angles and compare and order angles up to two right angles by size To describe position on a 2D grid as coordinates in the first quadrant To describe movements between positions as translations of a given unit to the left/right and up/down To plot specified points and draw sides to complete a given polygon
		Data handling and measurement	<ul style="list-style-type: none"> To interpret and present discrete data using bar charts and continuous data using time graphs To solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and simple line graphs To convert between different units of measure (kilometre to metre; hour to minute) To estimate, compare and calculate different measures, including money in pounds and pence

YEAR 4 MEDIUM TERM PLANNING - SUMMER 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Place value ideas	<ul style="list-style-type: none"> To count in multiples of 6, 7, 9, 25 and 1000 To find 1000 more or less than a given number To count backwards through zero to include negative numbers To recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) To order and compare numbers beyond 1000 To identify, represent and estimate numbers using different representations To round any number to the nearest 10, 100 or 1000 To solve number and practical problems that involve all of the above and with increasingly large positive numbers
		Mental addition and subtraction and measures (use measures as a context for problems)	<ul style="list-style-type: none"> To estimate and use inverse operations to check answers to a calculation To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why To estimate, compare and calculate different measures, including money in pounds and pence
		Written addition and subtraction and measures	<ul style="list-style-type: none"> To add and subtract numbers with up to four digits using the efficient written methods of columnar addition and subtraction where appropriate To estimate and use inverse operations to check answers to a calculation To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
		Mental and written multiplication and division	<ul style="list-style-type: none"> To recall multiplication and division facts for multiplication tables up to 12 x 12 To 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 To recognise and use factor pairs and commutativity in mental calculations To multiply two-digit and three-digit numbers by a one-digit number using formal written layout To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects
		Fractions	<ul style="list-style-type: none"> To count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten To 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 To recognise and show, using diagrams, families of common equivalent fractions To add and subtract fractions with the same denominator
		Area and perimeter of rectilinear shapes and capacity	<ul style="list-style-type: none"> To convert between different units of measure (kilometre to metre; hour to minute) To measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres To find the area of rectilinear shapes by counting To estimate, compare and calculate different measures, including money in pounds and pence

YEAR 4 MEDIUM TERM PLANNING - SUMMER 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Mental calculations	<ul style="list-style-type: none"> To estimate and use inverse operations to check answers to a calculation To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why To recall multiplication and division facts to multiplication tables up to 12 x 12 To recognise and use factor pairs and commutativity in mental calculations To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects
		Measures	<ul style="list-style-type: none"> To convert between different units of measure (kilometre to metre; hour to minute) To measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres To find the area of rectilinear shapes by counting To estimate, compare and calculate different measures, including money in pounds and pence To read, write and convert time between analogue and digital 12 and 24-hour clocks To solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
		Written addition and subtraction	<ul style="list-style-type: none"> To add and subtract numbers with up to four digits using the efficient written methods of columnar addition and subtraction where appropriate To estimate and use inverse operations to check answers to a calculation To solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why
		Mental and written multiplication and division	<ul style="list-style-type: none"> To recall multiplication and division facts for multiplication tables up to 12 x 12 To 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 To recognise and use factor pairs and commutativity in mental calculations To multiply two-digit and three-digit numbers by a one-digit number using formal written layout To solve problems involving multiplying and adding, including using the distributive law and harder multiplication problems such as which n objects are connected to m objects
		2D shape, angles and co-ordinates	<ul style="list-style-type: none"> To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes To identify acute and obtuse angles and compare and order angles up to two right angles by size To describe positions on a 2D grid as coordinates in the first quadrant To describe movements between positions as translations of a given unit to the left/right and up/down To plot specified points and draw sides to complete a given polygon
		Statistics	<ul style="list-style-type: none"> To interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs To solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and simple line graphs

YEAR 5 MEDIUM TERM PLANNING - AUTUMN 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Place value to 1,000,000	<ul style="list-style-type: none"> To read, write, order and compare numbers at least to 1,000,000 and determine the value of each digit To count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000
		Mental addition and subtraction	<ul style="list-style-type: none"> To add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction) To add and subtract numbers mentally with increasingly large numbers To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
		Factors of numbers and prime numbers	<ul style="list-style-type: none"> To identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 To solve problems involving multiplication and division where larger numbers are used by decomposing them into factors To know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers To establish whether a number up to 100 is prime and recall prime numbers up to 19
		Using multiplication and division facts	<ul style="list-style-type: none"> To multiply and divide numbers mentally drawing upon known facts To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates
		Angles	<ul style="list-style-type: none"> To know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles To draw given angles, and measure them in degrees (°) To identify: <ul style="list-style-type: none"> Angles at a point and one whole turn (total 360°) Angles at a point on a straight line and ½ a turn (total 180°) Other multiples of 90°
		Length, perimeter and area	<ul style="list-style-type: none"> To convert between different units of measure (for example, kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre) To understand and use equivalences between metric units and common imperial units such as inches, pounds and pints To use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling To measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres To calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes

YEAR 5 MEDIUM TERM PLANNING – AUTUMN 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Written methods for multiplication	<ul style="list-style-type: none"> To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 To multiply numbers up to 4 digits by a one or two-digit number using an efficient written method, including long multiplication for two-digit numbers To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates
		Divide 4-digit numbers	<ul style="list-style-type: none"> To divide numbers up to 4 digits by a one-digit number using the efficient written method of short division and interpret remainders appropriately for the context To multiply and divide numbers mentally drawing upon known facts To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates
		Fractions and decimals: tenths and hundredths	<ul style="list-style-type: none"> To compare and order fractions whose denominators are all multiples of the same number To identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths To read and write decimal numbers as fractions (for example, $0.71 = 71/100$)
		Decimals: tenths, hundredths, thousandths	<ul style="list-style-type: none"> To read, write, order and compare numbers with up to three decimal places To read and write decimal numbers as fractions (for example, $0.71 = 71/100$) To round decimals with two decimal places to the nearest whole numbers and to one decimal place To recognise and use thousandths and relate them to tenths, hundredths and decimals equivalents To solve problems involving number up to three decimal places
		2D and 3D shapes	<ul style="list-style-type: none"> To distinguish between regular and irregular polygons based on reasoning about equal sides and angles To use the properties of rectangles to deduce related facts and find missing lengths and angles To identify 3D shapes including cubes and cuboids from 2D representations
		Tables and bar charts	<ul style="list-style-type: none"> To complete, read and interpret information in tables, including timetables

YEAR 5 MEDIUM TERM PLANNING - SPRING 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Negative numbers, and solving problems involving numbers	<ul style="list-style-type: none"> ▢ To read, write order and compare numbers at least to 1,000,000 and determine the value of each digit. ▢ To count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. ▢ To interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero. ▢ To round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000. ▢ To solve number problems and practical problems that involve all of the above.
		Addition and subtraction of large numbers and money	<ul style="list-style-type: none"> ▢ To add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction). ▢ To add and subtract numbers mentally with increasingly large numbers. ▢ To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. ▢ To use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. ▢ To solve problems involving numbers up to three decimal places.
		Long multiplication, square numbers and cube numbers	<ul style="list-style-type: none"> ▢ To multiply and divide numbers mentally drawing upon known facts. ▢ To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. ▢ To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. ▢ To multiply numbers up to 4 digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers. ▢ To recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3). ▢ To calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.
		Adding and subtracting fractions	<ul style="list-style-type: none"> ▢ To recognise mixed numbers and improper fractions and convert from one form to the other; write mathematical statements > 1 as a mixed number: $2/5 + 4/5 = 6/5 = 11/5$. ▢ To add and subtract fractions with the same denominator and multiples of the same number.
		Reflections and translations	<ul style="list-style-type: none"> ▢ To 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
		Mass	<ul style="list-style-type: none"> ▢ To convert between different units of measure (kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre). ▢ To understand and use basic equivalences between metric units and common imperial units such as inches, pounds and pints. ▢ To use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.

YEAR 5 MEDIUM TERM PLANNING – SPRING 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Addition and subtraction: mental and written methods for large numbers	<ul style="list-style-type: none"> ▣ To add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction). ▣ To add and subtract numbers mentally with increasingly large numbers. ▣ To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. ▣ To use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
		Multiplication and division: written methods	<ul style="list-style-type: none"> ▣ To multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. ▣ To multiply numbers up to 4 digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers. ▣ To divide numbers up to 4 digits by a one-digit number using the efficient written method of short division and interpret remainders appropriately for the context. ▣ To solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.
		Calculating with fractions	<ul style="list-style-type: none"> ▣ To recognise mixed numbers and improper fractions and convert from one form to the other; write mathematical statements > 1 as a mixed number: $2/5 + 4/5 = 6/5 = 11/5$. ▣ To add and subtract fractions with the same denominator and multiples of the same number. ▣ To multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
		Percentages	<ul style="list-style-type: none"> ▣ To 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 hundred, and as a decimal fraction
		Capacity	<ul style="list-style-type: none"> ▣ To convert between different units of measure (kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre). ▣ To understand and use basic equivalences between metric units and common imperial units such as inches, pounds and pints. ▣ To estimate volume and capacity ▣ To use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling
		Line graphs/comparative graphs	<ul style="list-style-type: none"> ▣ To solve comparison, sum and difference problems using information presented in a line graph.

YEAR 5 MEDIUM TERM PLANNING – SUMMER 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Negative numbers and Roman numerals	<ul style="list-style-type: none"> ▣ To count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. ▣ To interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero. ▣ To round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000. ▣ To solve number problems and practical problems that involve all of the above. ▣ To read numerals to 1000 (M) and recognise years written in Roman numerals.
		Adding and subtracting large and small numbers	<ul style="list-style-type: none"> ▣ To add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction). ▣ To add and subtract numbers mentally with increasingly large numbers. ▣ To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. ▣ To use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. ▣ To solve problems involving numbers up to three decimal places.
		Long multiplication and division with remainders	<ul style="list-style-type: none"> ▣ To multiply numbers up to 4 digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers. ▣ To divide numbers up to 4 digits by a one-digit number using the efficient written method of short division and interpret remainders appropriately for the context. ▣ To solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.
		Working with fractions	<ul style="list-style-type: none"> ▣ To recognise mixed numbers and improper fractions and convert from one form to the other; write mathematical statements > 1 as a mixed number: $2/5 + 4/5 = 6/5 = 11/5$. ▣ To add and subtract fractions with the same denominator and multiples of the same number.
		Diagonals and problems involving angles	<ul style="list-style-type: none"> ▣ To know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles ▣ To draw given angles, and measure them in degrees ($^{\circ}$). ▣ To identify: <ul style="list-style-type: none"> ▣ 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°. ▣ To use the properties of a rectangle to deduce related facts and find missing lengths and angles. ▣ To distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
		Volume, time and money	<ul style="list-style-type: none"> ▣ To estimate volume (e.g. using 1 cm^3 blocks to build cubes and cuboids) and capacity (e.g. using water). ▣ To use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling ▣ To solve problems involving converting between units of time.

YEAR 5 MEDIUM TERM PLANNING – SUMMER 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Addition and subtraction of money	<ul style="list-style-type: none"> ▫ To add and subtract whole numbers with more than 4 digits, including using efficient written methods (columnar addition and subtraction). ▫ To add and subtract numbers mentally with increasingly large numbers. ▫ To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
		Multiplication and division of money	<ul style="list-style-type: none"> ▫ To multiply numbers up to 4 digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers. ▫ To multiply and divide numbers mentally drawing upon known facts. ▫ To identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. ▫ To solve problems involving multiplication and division where larger numbers are used by decomposing them into factors. ▫ To solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.
		Decimals and fractions	<ul style="list-style-type: none"> ▫ To read, write, order and compare numbers with up to three decimal places. ▫ To read and write decimal numbers as fractions (for example, $0.71 = 71/100$). ▫ To recognise and use thousandths and relate them to tenths, hundredths and decimals equivalents. ▫ To round decimals with two decimal places to the nearest whole numbers and to one decimal place.
		Problems involving percentages	<ul style="list-style-type: none"> ▫ To 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 hundred, and as a decimal fraction. ▫ To solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $4/5$ and those with a denominator of a multiple of 10 or 25.
		Perimeter, area and scale drawing	<ul style="list-style-type: none"> ▫ To measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. ▫ To calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes. ▫ To solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.
		Using tables, and line graphs	<ul style="list-style-type: none"> ▫ To complete, read and interpret information in tables, including timetables. ▫ To solve comparison, sum and difference problems using information presented in a line graph.

YEAR 6 MEDIUM TERM PLANNING – AUTUMN 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Place value and rounding off	<ul style="list-style-type: none"> ▣ To read, write, order and compare numbers at least to 10,000,000 and determine the value of each digit. ▣ To round any whole number to a required degree of accuracy. ▣ To solve number problems and practical problems that involve all of the above.
		Mental and written addition and subtraction of large numbers	<ul style="list-style-type: none"> ▣ To perform mental calculations, including with mixed operations and large numbers. ▣ To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
		Multiples, factors and prime numbers	<ul style="list-style-type: none"> ▣ To perform mental calculations, including with mixed operations and large numbers. ▣ To identify common factors, common multiples and prime numbers. ▣ To solve problems involving addition, subtraction, multiplication and division.
		Written methods for multiplication and division: HTU x TU and HTU x U	<ul style="list-style-type: none"> ▣ To multiply multi-digit numbers up to 4 digits by a two-digit whole number using the efficient written method of long multiplication. ▣ To divide numbers up to 4 digits by a two-digit whole number using the efficient written method of long division, and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context. ▣ To solve problems involving addition, subtraction, multiplication and division. ▣ To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
		Circles and angles	<ul style="list-style-type: none"> ▣ To illustrate and name parts of circles, including radius, diameter and circumference. ▣ To recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
		Units of measure	<ul style="list-style-type: none"> ▣ To solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate. ▣ To 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 three decimal places. ▣ To convert between miles and kilometres.

YEAR 6 MEDIUM TERM PLANNING – AUTUMN 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Written methods for multiplication and division	<ul style="list-style-type: none"> ▫ To multiply multi-digit numbers up to 4 digits by a two-digit whole number using the efficient written method of long multiplication. ▫ To divide numbers up to 4 digits by a two-digit whole number using efficient written methods of long division and interpret remainders as whole numbers, remainders, fractions or by rounding as appropriate in the context
		Comparing, ordering and simplifying fractions	<ul style="list-style-type: none"> ▫ To compare and order fractions, including fractions >1. ▫ To use common factors to simplify fractions; use common multiples to express fractions in the same denomination
		Multiplying decimals by 10, 100 and 1000	<ul style="list-style-type: none"> ▫ To identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100, 1000 where the answers are up to three decimal places. ▫ To solve problems which require answers to be rounded to specified degrees of accuracy.
		Order of operations	<ul style="list-style-type: none"> ▫ To perform mental calculations, including with mixed operations and large numbers. ▫ To use their knowledge of the order of operations to carry out calculations involving the four operations. ▫ To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. ▫ To solve problems involving addition, subtraction, multiplication and division. ▫ To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
		2D and 3D shapes	<ul style="list-style-type: none"> ▫ To draw 2D shapes using given dimensions and angles. ▫ To compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons. ▫ To recognise, describe and build simple 3D shapes, including making nets.
		Pie charts	<ul style="list-style-type: none"> ▫ To interpret and construct pie charts and line graphs and use these to solve problems.

YEAR 6 MEDIUM TERM PLANNING – SPRING 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Negative numbers, and solving problems involving numbers	<ul style="list-style-type: none"> ▢ To read, write, order and compare numbers at least to 10,000,000 and determine the value of each digit. ▢ To round any whole number to a required degree of accuracy. ▢ To use negative numbers in context, and calculate intervals across zero. ▢ To solve number problems and practical problems that involve all of the above.
		Mental and written addition and subtraction of decimals and money	<ul style="list-style-type: none"> ▢ To perform mental calculations, including with mixed operations and large numbers. ▢ To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. ▢ To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy
		Mental and written multiplication and division	<ul style="list-style-type: none"> ▢ To perform mental calculations, including with mixed operation and large numbers. ▢ To identify common factors, common multiples and prime numbers (Children could practise using mental methods that involve using factors, for example.) ▢ To use their knowledge of the order of operations to carry out calculations involving the four operations. ▢ To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
		Calculating with fractions	<ul style="list-style-type: none"> ▢ To add and subtract fractions with different denominators, using the concept of equivalent fractions. ▢ To associate a fraction with division to calculate decimal fraction equivalents (0.375) for a simple fraction (3/8). ▢ To multiply simple pairs of proper fractions, writing the answer in its simplest form ($1/4 \div 1/2 = 1/8$). ▢ To divide proper fractions by whole numbers ($1/3 \div 2 = 1/6$).
		Reflections and translations on co-ordinate axes	<ul style="list-style-type: none"> ● To describe positions on the full co-ordinate grid (all four quadrants). ● To draw and translate simple shapes on the co-ordinate plane, and reflect them in the axes.
		Perimeter, area and volume	<ul style="list-style-type: none"> ▢ To recognise that shapes with the same area can have different perimeters and vice versa. ▢ To calculate the area of parallelograms and triangles. ▢ To recognise when it is necessary to use the formulae for area and volume of shapes. ▢ To calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³) and extending to other units such as mm³ and km

YEAR 6 MEDIUM TERM PLANNING – SPRING 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Calculating with large numbers	<ul style="list-style-type: none"> ▣ To multiply multi-digit numbers up to 4 digits by a two-digit whole number using the efficient written method of long multiplication. ▣ To divide numbers up to 4 digits by a two-digit whole number using the efficient written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. ▣ To perform mental calculations, including with mixed operations and large numbers. ▣ To use their knowledge of the order of operations to carry out calculations involving the four operations. ▣ To solve problems involving addition, subtraction, multiplication and division
		Multiplying and dividing decimals	<ul style="list-style-type: none"> ▣ To multiply one-digit numbers with up to two decimal places by whole numbers. ▣ To use written division methods in cases where the answer has up to two decimal places. ▣ To solve problems which require answers to be rounded to specified degrees of accuracy.
		Percentages, decimals and fractions	<ul style="list-style-type: none"> ▣ To solve problems involving the calculation of percentages of whole numbers or measures and the use of percentages for comparison. ▣ To recall and use equivalences between simple fractions, decimals and percentages, including different contexts.
		Simple formulae	<ul style="list-style-type: none"> ▣ To express missing number problems algebraically. ▣ To use simple formulae expressed in words. ▣ To find pairs of numbers that satisfy number sentences involving two unknowns. ▣ To enumerate all possibilities of combinations of two variables.
		Area and volume	<ul style="list-style-type: none"> ▣ To solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places, where appropriate. ▣ To 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 three decimal places. ▣ To calculate the area of parallelograms and triangles. ▣ To recognise when it is necessary to use the formulae for area and volume of shapes.
		Line graphs	<ul style="list-style-type: none"> ▣ To interpret and construct pie charts and line graphs and use these to solve problems.

YEAR 6 MEDIUM TERM PLANNING – SUMMER 1

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Problems involving number	<ul style="list-style-type: none"> ▫ To read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. ▫ To round any whole number to a required degree of accuracy. ▫ To use negative numbers in context and calculate intervals across zero. ▫ To solve number problems and practical problems that involve all the above.
		Adding and subtracting large and small numbers	<ul style="list-style-type: none"> ▫ To perform mental calculations, including with mixed operations and large numbers. ▫ To solve addition and subtraction multi-step problems in contexts, deciding which operations to use and why. ▫ To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
		Long multiplication and division	<ul style="list-style-type: none"> ▫ To multiply multi-digit numbers up to 4 digits by a two-digit whole number using the efficient written methods of long multiplication. ▫ To divide numbers up to 4 digits by two digit whole numbers using the efficient written method of long division and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context. ▫ To use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy.
		Working with fractions	<ul style="list-style-type: none"> ▫ To add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. ▫ To multiply simple pairs of proper fractions, writing the answer in its simplest form. ▫ To divide proper fractions by whole numbers.
		Problems involving percentages, fractions and decimals	<ul style="list-style-type: none"> ▫ To solve problems involving the calculation of percentages of whole numbers or measures and the use of percentages for comparison. ▫ To recall and use equivalences between simple fractions, decimals and percentages including in different contexts.
		Ratio and proportion	<ul style="list-style-type: none"> ▫ To solve problems involving the relative size of two quantities where missing values can be found by using integer multiplication and division facts. ▫ To solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. ▫ To solve problems involving similar shapes where the scale factor is known or can be found.

YEAR 6 MEDIUM TERM PLANNING – SUMMER 2

WEEK	DATE	TOPIC	CURRICULUM OBJECTIVE
		Solving problems involving money	<ul style="list-style-type: none"> ▯ To solve problems involving the relative size of two quantities where missing values can be found by using integer multiplication and division facts. ▯ To solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. ▯ To solve problems involving similar shapes where the scale factor is known or can be found.
		Number puzzles	<ul style="list-style-type: none"> ▯ To express missing number problems algebraically. ▯ To use simple formulae expressed in words. ▯ To generate and describe linear number sequences. ▯ To find pairs of numbers that satisfy number sentences involving two unknowns. ▯ To enumerate all possibilities of combinations of two variables.
		Fractions with different denominators	<ul style="list-style-type: none"> ▯ To multiply simple pairs of proper fractions, writing the answer in its simplest form ($\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$). ▯ To use common factors to simplify fractions; use common multiples to express fractions in the same denomination. ▯ To add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions.
		Problems involving percentages and decimals	<ul style="list-style-type: none"> ▯ To solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360 and the use of percentages for comparison. ▯ To recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
		Problems involving measures	<ul style="list-style-type: none"> ▯ To solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate. ▯ To use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a large unit and vice versa, using decimal notation to three decimal places.
		Using data	<ul style="list-style-type: none"> ● To interpret and construct pie charts and line graphs and use these to solve problems. ▯ To calculate and interpret the mean as an average.