

St Paul's Church of England Primary School

MathsLong Term Curriculum

		Rep	etition of counting, subitising, number flue	ncy and patterns (+ shape/time/measure	and spatial thinking)
		Introducing 0 comparing Nos to 5	Growing 6,7,8	Building 9 & 10	Consolidation
Zero and 0 r Counting ba Comparing 0 Subitising 0 Fewer/same Composition Number sha Number bot Comparing 0 Compari			 Counting, representing 6,7,8 in different ways Count out from a larger group Subitise – numbers made up of smaller groups How many? Making pairs 5 wise patterns/pair-wise patterns Combining 2 groups – early doubling Part whole model Length and height Time – yesterday, today, tomorrow Days of the week 	 Counting, to 9 and 10 forwards and back representing 9 and 10 in different ways Comparing Nos to 10 Subitise larger numbers and explore their composition (eg 9 is 3,3,3) Bonds to 10 – ten frames, fingers, beads etc Repeat previous prompts for counting Halving/doubling/sharing Number games and rhymes 3D shape Repeated patterns 	• Measures (EYFS RTP)
			etition of counting, subitising, number flue		and spatial thinking)
		20 and beyond	First, then, now	Finding Pattern	TRANSITION
		Consolidating key skills: Subitising Consolidating key skills: Subitising Counting Counting Composition Composition		Consolidating key skills: · Subitising · Counting · Composition	NumberPatternsShapeMeasures
EYFS Summer Term		 sorting and matching comparing and ordering Nos and counting patterns beyond 10 How many is 100? Spatial reasoning: Jigsaws and shape puzzles matching shapes and patterns 	 sorting and matching comparing and ordering Adding more and taking away Number rhymes Devise and record number stories, using pictures, numbers and symbols Spatial reasoning: shape puzzles – squares rectangles and triangles tangrams 	 sorting and matching comparing and ordering Doubling Sharing and grouping Even and odd Find half / make equal groups Spatial reasoning: Make models with 2D and 3D shapes compare models 	Devise and record number stories, using pictures, numbers and symbols (such as arrows). See, explore and discuss models of common 2D and 3D shapes with varied dimensions and presented in different orientations (for example, triangles not always presented on their base). Select, rotate and manipulate shapes for a particular purpose, for example rotating a cylinder so it can be used to build a tower or rotating a puzzle piece to fit in its place

	• Early Adopter Framework	 ELG: Number Children at the expected level of development will: Have a deep understanding of number to 10, including the composition of each number; Subitise (recognise quantities without counting) up to 5; Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. ELG: Numerical Patterns Children at the expected level of development will: Verbally count beyond 20, recognising the pattern of the counting system; Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally 									
		Daily fluency practice - repetition, retrieval and consolidation of known skills									
		Number: Place Value:	Number: Addition and Subtraction	Maths Storybook week	Geometry: Shape	Number: Place Value Addition and subtraction					
_		transition & consolidation		Measurement: Length and Height							
Year 1 Autumn term	Sequence of lessons	 Sort, count and represent objects. Develop fluency counting, reading and writing forwards and backwards from any number to and and beyond 10. Count one more/one less. Compare numbers and groups using language such as equal, more/greater, less/fewer. Introduce and use = , > and < symbols Order groups of objects and numbers and use ordinal numbers (1st, 2nd, 3rd). Understanding and using the number line to begin adding/ taking away numbers more than one (dice games). 	 Use the Part whole model. Understand and use the ddition symbol Fact families – Addition facts. Find, recognise and remember number bonds for numbers within 10. Find, recognise and remember number bonds to 10 Compare number bonds. Addition: Adding together, adding more. Finding a part. Use the addition (+) symbol Subtraction: Taking away, how many left? Crossing out. Finding a part, breaking apart. Use the subtraction (-) symbol. Subtraction: Counting back. Finding the difference. Comparing addition and subtraction statements 	Jim and the Beanstalk' by Raymond Briggs Compare lengths and heights. Measure length Introduce scales and compare Key vocabulary: Scale, measure, bigger, smaller, times (as large/small), around, width, depth, perimeter, size, multiply, centimetres, metres	 Recognise and name 3D shapes. Sort 3D shapes. Recognise and name 2D shapes. Sort 2D shapes. Patterns and compositions with 3D and 2D shapes (including manipulating shapes to place them in particular orientations). 	Consolidate fluency in place value addition and subtraction facts: Count forwards and backwards and write numbers to 20 and beyond in numerals and words Revisit number bonds to 10. Solve one step problems that involve addition and subtraction,					

	National Curriculum	Count to ten, forwards and backwards, beginningwith 0 or 1, or from any given number. Count, read and write numbers to 10 in numerals ard words. Given a number, identify one more or one less. 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. Reason about the location of numbers to 20 in the number system including comparing	 Represent and use number bonds and related subtractionfacts within 10. Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one digit numbers to 10, including Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems. 	Measurement: Length and Height Measure and begin to record lengths and heights. Compare, describe and solve practical problems for: lengths and heights (for example, longer/shortr, longer/short, double/half). Recognise and nan common 2-D shap including: (e.g. rect (including squares) and triangles). Recognise and nan common 3-D shap including: (e.g. cub (including cubes), pand spheres).	problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.						
		Daily fluency practice - repetition, retrieval and consolidation of known skills									
		Number: Place Value	Number: Addition and Subtraction	Number: Place Value (within 50) (including multiples of 2, 5 and 10)	Measurement: Weight and Volume						
ır 1 Spring Term	Sequence of lessons	 Count forwards and backwards and write numbers to 20 and beyond in numerals and words. Begin with numbers from 11 to 20. Tens and ones. Count one more and one less, 2 more, 2 less etc Compare groups of objects and numbers (equal to, more than, less than (fewer), most, least.) Order groups of objects and numbers. 	 Add by counting on. Find and make number bonds to 20. Add by making 10. Subtraction – Not crossing 10. Subtraction – Crossing 10 Compare Number Sentences. Read, write and interpret equations containing addition (+), subtraction (-) and equals (=) symbols, Relate additive expressions and equations to real-life contexts. 	 Numbers to 50 and beyond. Tens and ones – partition numbers. Represent numbers to 50 and beyond. More/greater, less/fewer Compare objects and numbers within 50. Order numbers within 50 – and beyond. Count in 2s, including recognising odd and even numbers Count in 5s. Count in 10s 	 Introduce weight and mass. Measure mass. Compare mass. Introduce capacity. Measure capacity. Compare capacity. 						
Year 1	National Curriculum	 Count to twenty, forwards and backwards, beginningwith 0 or 1, from any given number. Count, read and write numbers to 20 in numeralsand words. Given a number, identify one more or one less. 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. 	 Represent and use number bonds and related subtraction facts within 20. Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract one-digit and two-digit numbers to 20, including zero. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7= -9. 	 Count to 50 forwards and backwards, beginning with 0 or 1, or from any number. Count, read and write numbers to 50 in numerals. Given a number, identify one more or one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. Count in multiples of twos, fives and tens. 	 Measurement: Weight and Volume Measure and begin to record mass/weight, capacity and volume. Compare, describe and solve practical problems for mass/weight:[for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]. 						

			Daily fluency practice	repetition, retrie	val and consolidation of know	vn skills	
		Number: Multiplication and (including multiples of 2, 5 and 10)	Number: Fractions	Geometry: Position and Direction	Number: Place Value (within 100)	Measurement:Money	Measurement: Time
Term	Sequence of lessons	 Count in 10s. Make and add equal groups -grouping. Make equal groups - sharing. Make arrays. Make doubles. Distribute items fairly, for example, put 3 marbles in each bag. Recognise when items are distributed unfairly 	 Halving shapes or objects. Halving a quantity. Find a quarter of a shape or object. Find a quarter of a quantity. Solve one step worded and practical problems using halves and quarters. 	Describe turns. Describe Position Select, rotate and manipulate shapes for a particular purpose, for example rotating a cylinder so it can be used to build a tower or rotating a puzzle piece to fit in its place	 Counting within 100 and beyond, forwards and backwards, starting with any number. Partitioning numbers. Comparing and ordering numbers. Reason about the location of numbers to 20 within the linear number system, including comparing using < > and = 	 Recognising coins. Recognising notes. Counting in coins. Reason, add and subtract coins – link to counting in 2s 5s and 10 	 Before and after. Dates – days, months, years. Time to the hour. Time to the half hour./ saying the time/showing time Begin to write time in hours minutes and seconds. Comparing time – earlier/ later.
Year 1 Summer	National Curriculum	 Count in multiples of twos, fives and tens. Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. 	Recognise, find and name a half as one of two equal parts of an object, shape or quantity. Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. Compare, describe and solve practical problems for: lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) Compare, describe and solve practical problems for: mass/weight [for example, heavy/light, heavier than, lighter than]; capacity and volume [for example, full/empty, more than, less than, half, half full, quarter].	Describe position, direction and movement, including whole, half, quarter and three quarter turns	Count, read and write numbers to 100 in numerals. Given a number, identify one more and one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, most, least.	Recognise and know the value of different denominations of coins and notes.	Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening. Recognise and use language relating to dates, including days of the week, weeks, months and years. Tell the time to the hour and half past the hour and draw the hands on a clock face toshow these times. Compare, describe and solve practical problems for time [for example, quicker, slower, earlier, later]. Measure and begin to record time (hours, minutes, seconds).

			Daily fluency practice - repetition, retrie	val and consolic	dation of known skills	
		Number: Place Value	Number: Addition and Subtraction	Maths Storybook week	Measurement: Money	Number: Multiplication and Division
Year 2 Autumn Term	Sequence of lessons	 Count objects to 100 and beyond and read and write numbers in numerals and words. Represent numbers to at least 100. Tens and ones with a part whole model. Tens and ones using addition. standard and non-standard partitioning Use a place value chart. Compare objects and numbers: Order objects and numbers. Count in 2s, 5s and 10s. Count in 3s. 	 Fact families – Addition and subtraction bonds to 20. Checking calculations. Compare number sentences and related facts. Bonds to 100 (tens). Add and subtract 1s. 10 more and 10 less -add and subtract 10s. Add a 2-digit and 1-digit number – crossing ten. Add two 2-digit numbers – not crossing ten – add ones and add tens. Add two 2-digit numbers – crossing ten – add ones and add tens. Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more?". Subtract 1-digit number from 2-digit number – crossing 10. Subtract 2-digit number from a 2-digit number – not crossing ten. Subtract a 2-digit number from a 2-digit number – subtract a 2-digit number – subtract ones and tens. Bonds to 100 (tens and ones). Add three 1-digit numbers. Add/subtract using column method at least 2 digit by 2 digits: tens and ones (CPA) 	A Grain of Rice', by Demi To predict a sequence is and then continue it. To investigate different ways of making a total.	 Count money – pence and pounds. (notes and coins). Select money. Make the same amount. Compare money. Find the total. Find the difference. Find change. Two-step problems. 	 Recognise and make equal groups. Add equal groups. Multiplication sentences using the x symbol. Multiplication sentences from pictures. Use arrays. Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 3, 5 and 10 multiplication tables.
	National Curriculum Link	 Read and write numbers to at least 100 innumerals and in words. Recognise the place value of each digit in atwo digit number (tens, ones) Identify, represent and estimate numbers using different representations including the number line. Compare and order numbers from 0 up to 100; use <, > and = signs. Use place value and number facts to solve problems. Count in steps of 2, 3 and 5 from 0, and intens from any number, forward and backward. 	 Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Add and subtract numbers 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. Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. 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. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. 		 Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coinsthat equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. 	 Recall and use multiplication and division facts for the 2,5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) sign. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.

		dation of known skills				
		Number: Multiplication and Division	Statistics	Geometry: Properties of Shape	Number: Fractions	Measurement: Length and Height
n Seguence of lessons	5	 Make equal groups – sharing. Make equal groups – grouping. Divide by 2. Odd and even numbers. Divide by 5. Divide by 10. Divide by 3 Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations. 	 Make tally charts. Draw and Interpret pictograms Draw pictograms (2, 3, 5 and 10). Interpret pictograms (2, 3, 5 and 10). Understand and interpret block/bar charts. 	 Recognise 2D and 3D shapes. Count sides, vertices and edges on 2D shapes. Draw 2D shapes. Lines of symmetry. Sort 2D shapes. Make patterns with 2D shapes. Count faces, edges and vertices on 3D shapes Sort 3D shapes. Make patterns with 3D shapes. Use precise language to describe the properties of 2D and 3D shapes and compare shapes by reasoning about similarities and differences in properties 	 Recognise and find quarter. Recognise and find a third Understanding unit fractions. Non unit fractions. Equivalence of ½ and ²/4. 	 Measure length (cm). Measure length (m). Compare lengths. Order lengths. Four operations with lengths.
	National Curriculum Link	 Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals(=) signs. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. 	 Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions bycounting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totaling and comparing categorical data. 	 Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. Identify 2-D shapes on the surface of 3-D shapes, [for example, a circleon a cylinder and a triangle on a pyramid]. Compare and sort common 2-D and 3-D shapes and everyday objects. 	 Recognise, find, name and write fractions 1/3, %, 2/4 and 3/4 of a length, shape, set of objects or quantity. Write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2 and 1/2. 	 Choose and use appropriate standard unitsto estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels. Compare and order lengths, mass, volume/capacity and record the results using >, < and =.

			Daily fluency practice - repetition, retrie	val and consolid	dation of know	n skills
		Geometry: Position and Direction	Consolidation and Problem- solving	Measur	ement: Time	Measurement: Mass, Capacity and Temperature
Summer Term	Sequence of lessons	 Describing movement and turns. Making patterns with shapes. 	Revision and consolidation of all concepts including: Number and Place value Addition and subtravtion Geometry Measurement Statistics (Fluency in number skills, vocabulary, reasoning, problem solving)	Telling time to	and quarter to. 5 minutes. hour, hours in a	 Compare mass. Measure mass in grams. Measure mass in kilograms. Compare capacity. Millilitres. Litres. Temperature.
Year 2 9	National Curriculum	Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise). Order and arrange combinations of mathematical objects in patterns and sequences.	All	Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.		 Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity(litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels. Compare and order lengths, mass, volume/capacity and record the resultsusing >, < and =.
			Daily fluency practice - repetition, retrieva	al and consolida	tion of known	skills
	Number: Place Value		Number: Addition and S	Number: Addition and Subtraction M b		Number: Multiplication and Division

ar 3 Autumn Term	Sequence of lessons	 Recap Hundreds. Know that 10 tens are equivalent hundred, and that 100 is 10 times the size of 2. Represent numbers to 1,000. 100s, 10s and 1s Recognise the place value of use standard and non-standard partitioning Number line to 1,000. Reason about the location of any three-digit Find 1, 10, 100 more or less than a given number. Compare objects and numbers to 1,000. Order numbers. Count in 50s. Divide 100 into 2, 4, 5 and 10 equal parts, and scales/number lines marked in multiples of 10 4, 5 and 10 equal parts. 	• Add 3-digit r 10/crossing • Subtract a 1- crossing 10/. • Add and sub crossing 100 • Add a 3-digit • Investigating • Add and sub crossing 10 c • Subtract 2-d the 10 or 100 • Add two 3-d 10 or 100. • Subtract a 3 no exchange • Check using commutativ	10/crossing 10. Subtract a 1-digit number from a 3-digit number –not crossing 10/crossing 10. Add and subtract 3-digit numbers and tens – not crossing 100. Add a 3-digit number and tens – crossing 100. Investigating patterns Add and subtract a 2-digit and 3-digit number – not crossing 10 or 100. Then crossing 10 or 100. Subtract 2-digit number from a 3-digit number cross the 10 or 100. Add two 3-digit numbers – not crossing 10 or 100/crossing 10 or 100. Add two 3-digit number from a 3-digit number – no exchange then exchange. Check using inverse: understand and use the commutative property of addition and understand the related property for subtraction.			 Inv Th Th Th Th Re in 	ultiplication – equal groups. vestigating patterns within tables and making connections are 3 times-table. are 4 times-table. are 8 times-table. are 6 times-table. are 9 times-table. are 9 times-table. are and corresponding division facts, the multiplication tables to 12x12, and recognise products these multiplication tables as multiples of the arresponding number.
Year	National Curriculum	 Identify, represent and estimate numbersusin different representations. Find 10 or 100 more or less than a given number. Recognise the place value of each digit in athredigit number (hundreds, tens, ones). Compare and order numbers up to 1000. Read and write numbers up to 1000 in numerals and in words. Solve number problems and practical problems involving these ideas. Count from 0 in multiples of 4, 8, 50 and 100. 	ones; a three-digit numberand tens, a three digit number or less than a given Add and subtract numbers with up to three digits, us methods of columnar additionand subtraction. Estimate the answer to a calculation and use inversed answers. Solve problems, including missing number problems, value, and more complex addition and subtraction. Solve problems addition and subtraction.				 Re Wi mi the tw an So inv 	count from 0 in multiples of 4, 8, 50 and 100. ceall and use multiplication and division facts for e 3, 4 and 8 multiplication tables. Trite and calculate mathematical statements for ultiplication and division using the multiplication tables ey know, including for vo-digit numbers times one-digit numbers, usingmental and progressing to formal written methods. Solve problems, including missing number problems, volving multiplication and division, including positive teger scaling problems and correspondence problems in hich n objects areconnected to m objectives.
		Dai	ily fluency practice - re	practice - repetition, retrieval and consolidation of known skills				
Term		Number: Multiplication and Division	Measurement: Money	Statistics		nent: Length erimeter		Number: Fractions
Year 3 Spring Te	Sequence of lessons	 Comparing statements. Related calculations. Multiply 2-digits by 1-digit CPA – use dienes Multiply 2-digits by 1-digit - pictoral/abstract Divide 2-digits by 1-digit CPA – use dienes Divide 2-digits by 1-digit pictoral/abstract Scaling; Apply place-value knowledge to known additive and multiplicative 	Pounds and pence. Converting pounds andpence. Adding money. Subtractingmoney. Giving change.	Draw and interpret: Pictograms. Bar charts. Tables.	 Measure length. Equivalent lengthom. Equivalent lengthom. Compare lengthsom. Add lengthsom. Subtraction lengthom. Measure perimeom. Calculate perimeom. 	ths – m & ths – mm & cm. s. tths. eter.		 Unit and non-unit fractions. Making the whole. Tenths. Count in tenths. Tenths as decimals. Fractions of a number line. Fractions of a set of objects/amounts

	National Curriculum	 number facts How many ways? Apply known multiplication and division facts to solve contextual problems with different structures Introduce short division CPA in books Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digitnumbers, using mental and progressing to formal written methods. Solve problems, including missing number problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objectives. 	Add and subtract amounts of money to give change, using both £ and p inpractical contexts.	Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Measure the perimeter of simple 2D shapes.	arise fromdividing an olin dividing one-digit nur Recognise and use fract fractions and non-unit f denominators. Recognise, find and wri	ractions with small te fractions of a discrete set s and non-unit fractions with
		Da	ily fluency practice - r		al and consolidation of known skil	ls	
Term		Number: Fractions	Measurement	t: Time	Geometry: Property of Shapes		Measurement: Mass and Capacity
Summer 1	ons	Equivalent fractions :Interpret and write	 Months and years. Hours in a day. Telling the time to 5 minutes. Telling the time to the minute. AM and PM. 24 hour clock. Finding the duration. Comparing the duration. Start and end times. Measuring time in seconds. 		 Turns and angles. Right angles in shapes (presented in different orientations.) Compare angles. Draw angles accurately. Precise language: Horizontal, vertical, parallel and perpendicular. Recognise, reason and describe properties of 2D shapes. Draw polygons Recognise and describe 3Dshapes- Make 3D shapes. 		Measure mass

	National Curriculum	 Recognise and show, using diagrams, equivalent fractions withsmall denominators. Compare and order unit fractions, and fractions with the same denominators. Add and subtract fractions with thesame denominator within one whole [for example, ⁵/₇ + ¹/₇ = ⁶/₇]. Solve problems that involve all ofthe above. 	 Tell and write the time from an analogue clock, including using Roman numerals from I to XII and12-hour and 24-hour clocks. Estimate and read time with increasing accuracy to the nearestminute. Record and compare time in terms of seconds, minutes and hours. Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. Know the number of seconds in a minute and the number of days ineach month, year and leap year. Compare durations of events [for example to calculate the time takenby particular events or tasks]. 	 Recognise angles as a property ofshape or a description of a tu Identify right angles, recognise that two right angles make a hat three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right ar Identify horizontal and vertical lines and pairs of perpendicular parallel lines. Draw 2-D shapes and make 3-Dshapes using modelling materia Recognise 3-D shapes in differentorientations and describe the 		f-turn, and subtract: lengths (m/cm/mm);mass (kg/g); gle. volume/capacity (l/ml). s.			
		Daily fluency practice - repetition, retrieval and consolidation of known skills							
		Number: Place Value	Number: Addition and Subtraction	Maths Storybook Week	Measurement: Length and Perimeter/Area	Number: Multiplication and Division			
Year 4 Autumn Term	Sequence of lessons	 Roman numerals to 100. Count in 1,000s. Understand 1,000s, 100s, 10s and 1s. decompose four-digit numbers using standard and non-standard partitioning. Number line to 10,000. 1,000 more or less. Compare and order numbers. Round to the nearest 10/100/1,000. Count in 25s, 20s Negative numbers – using temperature and a numberline. 	 Add and subtract 1s, 10s, 100s and 1000s. Add two 4-digit numbers – no exchange. Add two 4-digit numbers – one exchange. Add two 4-digit numbers – more than one exchange. Subtract two 4-digit numbers – no exchange. Subtract two 4-digit numbers – one exchange. Subtract two 4-digit numbers – more exchange. Subtract two 4-digit numbers – more than one exchange. Efficient subtraction. Estimate answers and checking strategies. 	'365 Penguins' by Jean-Luc Fromental To solve mathematical problems using properties of numbers To explain reasoning and justify theories To work systematically To solve mathematical problems involving time	 Kilometres. Perimeter on a grid. Perimeter of a rectangle. Perimeter of rectilinear shapes. What is area? Counting squares Making shapes. Comparing area Calculating areas and perimeters of rectangles using formulae 	 Multiply by 10 and 100 Divide by 10 and 100. Multiply and divide by 1 and 0 Recap multiplying and dividing by 3, 6 and 9 – patterns and strategies. Recap 7 times-table and division facts. Recall and use multiplication and division facts for multiplication tables upto 12 × 12. 			
	National Curriculum	 Count in multiples of 6, 7, 9. 25 and 1000. Find 1000 more or less than a given number. Recognise the place value of each digitin a four digit number (thousands, hundreds, tens and ones). Order and compare numbers beyond 1000. Identify, represent and estimate numbers using different 	 Add and subtract numbers with up to 4digits us written methodsof columnar addition and subtrappropriate. Estimate and use inverse operations tocheck an calculation. Solve addition and subtraction two step probler deciding which operations and methods to use an extension of the columns. 	ing the formal raction where swers to a ms in contexts,	Measure and calculate the perimeter of a rectilinear figure (including squares)in centimetres andmetres. Convert between different units of measure [for example, kilometer to metre]. Find the area of rectilinear shapes by counting squares.	Recall and use multiplication and division facts for multiplication tables upto 12 × 12. Count in multiples of 6, 7, 9. 25 and 1000. Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three			

		representations. Round any number to the nearest 10, 100 or 1000. Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers.	rtice - renetit	ion, retrieval and consolid	ation of kno	wn skills	numbers. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondenceproblems such as n objects are connected to m objects.
		Number: Multiplication and Division	Number: Fractions		Number: Decimals		
Year 4 Spring Term	Sequence of lessons	 Multiply 3 numbers. Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts. Factor pairs. Efficient multiplication. Written methods of multiplication and division. Multiply 2-digits by 1-digit. Multiply 3-digits by 1-digit. Divide 3-digits by 1-digit Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, and interpret remainders appropriately according to the context Correspondence multiplication problems. commutative property of multiplication. distributive property of multiplication. 	greater that Reason about number sy Equivalent Count in fr Add and su Subtract fr Convert m Add and su denominat	Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbersSubtract 2 fractions Calculate fractions of a quantity including non-unit fractions of		 Recognise tenths and hundredths. Tenths as decimals. Tenths on a place value grid. Tenths on a number line. Divide 1 digit by 10. Divide 2 digits by 10. Hundredths. Hundredths as decimals. Hundredths on a place value grid. Divide 1 or 2 digits by 100. Begin to add and subtract using decimals 	
Yea	National Curriculum	 Recall and use multiplication and division facts for multiplication tablesup to 12 × 12. Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers. Recognise and use factor pairs and commutativity in mental calculations. Multiply two digit and three digit numbers by a one digit number usingformal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondenceproblems such as n objects are connected to m objects. 	Recognise equivalent Count up a hundredth anddividin Solve prob calculate q including number.	calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole		tenths or hundredths. • Find the effect of dividing a	vo decimal places. units of measure [for
			ce - repetitio	n, retrieval and consolidate		n skills etry: Property of Shape	Geometry: Position and
		ividasurement:woney ividasur	ement: ime	Statistics	Geom	ен у. Ргоренцу от эпаре	Direction

Term	Sequence of lessons	 Make a whole. Write decimals. Compare decimals. Order decimals. Round decimals. Halves and quarters as decimals Recognise fractions and decimal equivalence 	 Pounds and pence. Ordering amounts of money. Using rounding to estimate money. Four operation problem solving 	Analogue to digital – 24 hour. Analogue to digital – 24 hour.	 Interpret charts. Comparison, sum a difference. Introducing line gra Line graphs. 	Identify regul triangles and angles are equ Find the perin polygons. Quadrilaterals Lines of symm Complete a sy	orderangles. r polygons, including equilateral quares, lengths are equal, and the al. eter of regular and irregular	Describe position. Draw polygons, specified by coordinates in the first quadrant, Translate within the first quadrant. Describe a movement on a grid.	
Year 4 Summer Term	National Curriculum	 Compare numbers with the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to ¼, ½ and ¾. Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths. 	the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to %, ½ and ¾. Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths compare and calculate different measure, including money in pounds and pence. solve simple measure and money problems involving fractions and decimals to two decimal places. compare and convert time between analogue and digital 12- and 24-hour clocks. solve problems involving converting fromhours to minutes; minutes to seconds; years to months; weeks to days. or dividing a one or two decimal places.		data using appropriate graphical methods, including bar charts and time graphs. • Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. • Compare and classify geor including quadrilateralsant their properties and sizes. • Identify lines of symmetry presented in different orie. • Complete a simple symme respect to a specific line or spec		classify geometric shapes, rilateralsand triangles, based on is and sizes. If symmetry in 2-D shapes ifferent orientations. Inple symmetric figure with	 Describe positions on a 2-D grid as coordinates in the first quadrant. Plot specified points and draw sides to completea given polygon. Describe movements between positions as translations of agiven unit to theleft/ right and up/ down. 	
		Number: Place Va		ly fluency practice - repeti Number: Addition and Subtraction	Maths storybook week	onsolidation of know Number: Decimals		Itiplication and Division	
	Sequence of lessons	 Number to 10,000. Roman numerals to 1,000. Round to the nearest 10, 100, 1000. Number to 100,000. Compare and order numbers 100,000. Round numbers within 100,000. Numbers to at least a million. Counting in 10s, 100s, 1,000s, 10,000s and 100,000s. Compare and order numbers million. Round numbers to a million. Negative numbers – including calculating with. 	tto a tto tto tto tto tto tto tto tto tt	dd whole numberswith more nan 4- digits (column method). ubtract whole numbers with more nan 4-digits (columnm method). ound to estimate nd approximate. exercise operations (addition and ubtraction). Multi-step addition and ubtraction problems.	Statistics • 'If the World Were a Village' by David J Smith & Shelagh Armstrong • present data as a pie chart. • interpret data and clearly present interpretations. • Read and interpretline graphs. • Draw line graphs. • Use line	were a Village' by David J Smith & Shelagh Armstrong present data as a pie chart. interpret data and clearly present interpretations. Read and interpretline graphs. Draw line graphs. with in 1. Adding decimals — crossing the whole. Subtracting decimals with the same number of decimal places. Subtracting decimals with a different number of decimal places. Subtracting decimals with a different number of decimal places. Subtracting decimals with a different number of decimal places.		 Find factors and multiples, including common factors and common multiples, and express a given number as a product of 2 or 3 factors Identify Prime numbers. Square numbers. Cube numbers. Multiples of 10, 100 and 1000. Multiplying by 10, 100 and 1000 including decimals Dividing by 10, 100 and 1000 including decimals 	

				graphs tosolve problems. Read and interprettables. Timetables.	M	ecimal sequences. Iultiplying and dividing decimals y 10, 100 and 1000		
Year 5 Autumn Term	National Curriculum	Read, write, order and compare numbers to at least1000000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for anygiven number up to 1000000. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero. Round any number up to 1000000 to the nearest 10, 100,1000, 10000 and 100000. Solve number problems and practical problems that involveall of the above. Read Roman numerals to 1000 (M) and recognise years writtenin Roman numerals.	Add and subtract numbers mentally with increasingly largenumbers. Add and subtract whole numbers with more than 4 digits, including using formalwritten methods (columnar addition and subtraction). Use rounding to checkanswers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-stepproblems in contexts, deciding which operations and methods to use and why.	Solve comparison, sum and difference problems using information presented in a linegraph. Complete, readand interpret information in tables including timetables.	nu pl: • M nu de • Us so m lei	olve problems involving umber up to three decimal aces. Iultiply and divide whole umbers and those involving ecimals by 10, 100 and 1000. See all four operations to olve problems involving easure [for example, ngth, mass, volume, oney] using decimal otation, including scaling.	 Identify multiples and factors, including finding all factorpairs of a number, and common factors of 2 numbers. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 is prime and recallprime numbers up to 19. Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including longmultiplication for two-digit numbers. Multiply and divide numbers mentally, drawing uponknown facts. Divide numbers up to 4 digits by a one-digit number using the formal written method of short division andinterpret remainders appropriately for the context. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000. Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³). 	
			Daily fluency practice - repetiti	ion, retrieval and c	onsol	idation of known skills		
		Number: Multiplication and Division Number: Fi		actions Number: Decima		Number: Decim	nals and Percentages	
Year 5 Spring Term	Sequence of lessons	 Short multiplication: Multiply 4-digits by 1-digit using a formal written method. Long Multiplication: Multiply 2-digits by 2-digits. Multiply 3-digits by 2-digits. Multiply 4-digits by 2-digits. Divide 4-digits by 1-digit using a formal written method interpret remainders appropriately for the context fraction remainders Onto decimal remainders 	Equivalent fractions.by multiplying Recap Improper fractions to mixed Number sequences. Compare and order fractions less t Recall decimal fraction equivalents of these proper fractions Compare and order fractions great denominators. Add and subtract proper fractions Add and subtract mixed numbers. Subtract mixed numbers Multiply unit and non-unit fraction Multiply mixed numbers by intege Fraction of an amount.Find non-ur Using fractions as operators. (divi	numbers and vice verse than 1 with different deno for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$ and $\frac{1}{10}$ and for ter than 1 with different – find common denomina his by an integer. rs. nit fractions of quantities.	minator multiple	Recognise the place value of each digit in numbers with up to 2 d.p. Decimals as fractions Understand thousandths - thousandths as decimals. Rounding decimals to whole numbers/to 1dp Order and compare decimals. Understand percentages. Percentages as fractions and decimals. Equivalent F.D.P.		
	National Curriculum	 Multiply and divide numbers mentally drawingupon known facts. Multiply numbers up to 4 digits by a one ortwo digit number using a formal written method, including long multiplication for 2digit numbers. Divide numbers up to 4 digits by a one digitnumber using the formal written 	Compare and order fractions whos multiples of the same number. Identify, name and write equivaler represented visually including tent Recognise mixed numbers and imp from one form to the other and wr >1 as a mixed number [for example Add and subtract fractions with the	In the fractions of a given fractions and hundredths. The proper fractions and converte mathematical stateme $e \frac{1}{2} + \frac{1}{2} = \frac{6}{5} = \frac{1}{5}$.	ert	 Recognise and use thous decimal equivalents. Round decimals with tw to one decimal place. Solve problems involving Recognise the per cent s 	ompare numbers with up to threedecimal places. sandths and relate them to tenths, hundredths and o decimal places to the nearest whole number and g number up to three decimalplaces. symbol (%) and understand that per cent relates to ndred', and write percentages as a fraction with	

		 method ofshort division and interpret remainders appropriately for the context. Solve problems involving addition and subtraction, multiplication and division ar a combination of these, including understandingthe use of the equals sign 	 denominators that are multiples of the same nu Multiply proper fractions and mixed numbers by numbers, supported by materials and diagrams. Read and write decimal numbers as fractions [f = 71/100]. Solve problems involving multiplication and diviscaling by simple fractions and problems involving 	 Solve problems which require knowing percentage and decimal equ of ½, ¼, ½, ½, %, % and those fractions with a denominator of a multiple 25. an, including 			
		 Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. 					
		Measurement: Perimeter and	Daily fluency practice - repetition, retrie Geometry: Properties of Shape	val and consolidate		n skills Measurement:	Measurement:Volume
		Area	, , , , , , , , , , , , , , , , , , , ,	Directi		Converting Units	
SummerTerm	Sequence of lessons	 Measure perimeter. Calculate perimeter. Area of rectangles. Area of compoundshapes. Area of irregularshapes. Area of a triangle Compare areas using standard units. 	 Compare angles, estimate, and measure angles in degrees (°) and draw angles of a given size with a protractor Drawing lines and angles accurately. Calculating angles on a straight line. Calculating angles around a point. Calculating lengths and angles inshapes. Recap regular and irregular polygons. Reasoning about 3D shapes. 	 Position in the first Reflection. Reflection with contraction. Translation. Translation with contraction with contraction. 	oordinates.	 km and m;cm and m; cm and m; cm and mm; g and kg; I and mI Estimating Metric units. Imperial units. Converting units of measure including using common decimals and fractions. Converting units of time . Timetables. 	 Recap What is volume? Compare volumes – counting cubes. Estimate volume. Estimate capacity Compare volumes with capacity.
Year 5 Summ	National Curriculum	 Measure and calculate the perimeter of composite rectilinearshapes in centimetres and metres. Calculate and compare the area of rectangles (includingsquares), including using standard units, square centimetres (cm²) and square metres (m²), and estimate the area of irregular shapes. 	 Identify 3D shapes, including cubesand other cuboids, from 2D representations. Use the properties of rectangles todeduce related facts and find missing lengths and angles. Distinguish between regular andirregular polygons based on reasoning about equal sides andangles. Know angles are measured in degrees: estimate and compareacute, obtuse and reflex angles. Draw given angles, and measurethem in degrees. Identify: 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° 	Identify, describe theposition of a sl a reflection or trathe appropriate laknow that the shap changed.	hape following nslation, using anguage, and	Convert between different units of metric measure [forexample, km and m; cm and m; cm and mm; g and kg; l and ml]. Understand and use approximate equivalences between metric units and common imperialunits such as inches, pounds and pints. Solve problems involving convertingbetween units of time.	Estimate volume [for example using1cm3 blocks to build cuboids (including cubes)]and capacity [for example, using water]. Use all four operations to solveproblems involving measure.

		Daily fluency practice - repetition, retrieval and consolidation of known skills					
		Number: PlaceValue	Number: Addition, Subtraction, Multiplication and Division	Maths Storybook week measurement	Number: Fractions	Geometry: Position and Direction	
Autumn Term	Sequence of lessons	 Numbers to ten million. Compare an orderany number. Recap and consolidate Decimal place value Three decimal places. Multiply by 10, 100 and 1,000. Divide by 10, 100 and 1,000. Multiply decimals by integers. Round any numbers to 1 or 2 dp. Calculate with Negative numbers. Read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts. 	 Add and subtract whole numbers and decimals Multiply up to 4-digit by 1-digit number. Short division.— fraction and decimal remainders. Long multiplication including decimals Division using factors. Long division Common factors. Common multiples. Primes. Squares and cubes. Order of operations: BIDMAS Mental calculations and estimation. Reasoning from known facts. Divide decimals by integers Division to solve problems 	'Titanic' Circles/Pythag oras/Percenta ges To know the different parts of a circle To investigate the circumferenc e and area of a circle	 Recognise when fractions can be simplified and use common factors to simplify fractions. Fractions on a number line. Compare & order (denominator). Compare & order (numerator). Add & subtract fractions Mixed number addition and subtraction. Multiply fractions by integers. Multiply fractions by integers Four rules and problem solving with fractions. Fraction of an amount. 	Coordinates inthe first quadrant. Coordinate in four quadrants. Translations. Reflections.	
Year 6 Autu	National Curriculum	 Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. Round any whole number to a required degree of accuracy. Use negative numbers in context, and calculate intervals across zero. Solve number and practical problems that involve all of the above. Identify the value of each digit in numbers given to 3 decimal places and multiply numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. 	 Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why. Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication. Multiply one-digit numbers with up to 2 decimal places by whole numbers. Use written division methods in cases where the answer has up to 2 decimal places. Solve problems which require answers to be rounded to specified degrees of accuracy. Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding as appropriate for the context. Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context. Perform mental calculations, including with mixed operations and large numbers. 		 Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. Compare and order fractions, including fractions >1. Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 × 1/2 = 1/8). Divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6). Associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8). Identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are upto three decimal places. Multiply one digit numbers with up to two decimal places by wholenumbers. Use written division methods in cases where the answer has up totwo decimal places. Solve problems which require answers to be rounded to specified degrees of 	Describe positions on thefull coordinate grid (all four quadrants). Draw and translate simpleshapes on the coordinate plane, and reflect them in the axes.	

			 Identify common factors, common and prime numbers. Use their knowledge of the order operations to carry outcalculation involving the four operations. Solve problems involving addition subtraction, multiplication and died. Use estimation to check answers calculations and determine in the context of a problem, an app degree of accuracy. 	of ns n, vision. to	accuracy. Recall and use equivalences betwee fractions, decimals and percentages, including in contexts.		
			Daily fluency practice - repeti	tion, retrieval and consolid	ation of known skills		
		Number: Fractions/Decimals/ Percentages	Number: Ratio	Number: Algebra	Measurement: Converting Units	Measurement: Perimeter, Area andVolume	
Year 6 Spring Term	Sequence of lessons	 Decimals as fractions. Fractions to decimals Fractions to percentages. Equivalent FDP. Order FDP Percentage of an amount Percentages –missing values. Percentage increase and decrease. 	 Use ratio language. Ratio and fractions – proportion Bar model and unitary method. Introducing the ratiosymbol. Calculating ratio. Using scale factors. Calculating scale factors. Ratio and proportionproblems. 	 Finding formula Using letters and symbols to represent unknowns Use an algebraic rule. Substitution. Word problems. Solve simple one step equations. Solve two step equations. Find pairs of values. 	 Metric measures. Convert between metric units of measure, including using common decimals and fractions. Calculate with metric measures. Miles and kilometres. Imperial measures. read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts. 	 Compare areas and calculate the area of rectangles (including squares) using standard units Shapes – same area. Area and perimeter. Area of a triangle, parallelogram and composite shapes Volume – counting Cubes and formulae. Volume of a cuboid and composite 	
	National Curriculum	Solve problems involving the calculation of percentages [for example, of measures and suchas 15% of 360] and the use of percentages for comparison. Recall and use equivalences between simple fractions, decimals	 .Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. Solve problems involving similar shapes where the scale factor is knownor can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. 	 Generate and describe linear number sequences. Express missing number problems algebraically. Find pairs of numbers 	 Solve problems involving the calculation and conversion of units of measure, using decimalnotation up to three decimal places where appropriate. Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smallerunit of measure to a larger unit, and vice versa, using decimal notation to up to 3 d.p. Convert between milesand kilometres. 	 Recognise that shapeswith the same areas can have different perimeters and vice versa. Recognise when it is possible to use formulae for area and volume of shapes. Calculate the area of parallelograms and triangles. Calculate, estimate and compare volumeof cubes and cuboidsusing standard units, including cm3, m3 and extending to other units (mm3, km3). 	
			Daily fluency practice - repeti	tion, retrieval and consoli	dation of known skills		
		Geometry: Properties of Shapes	Consolidation/SATs practice	Statistic s	Consolidation, Investigations	and preparations for KS3	

				(& CC throughout Yr 6)	
Summer Term	Sequence of lessons	 Recap measuring with a protractor. Calculate missing angles. Vertically opposite angles. Angles in a triangle – special cases. Angles in special quadrilaterals. Angles in regular polygons. Draw shapes accurately. Nets of 3D shapes. Draw, compose, and decompose shapes according to given properties, including dimensions, angles, and area, and solve related problems 	 Arithmetic – Fluency; 4 rules inc fractions Problem Solving/Reasoning with Number FDPR Measures Geometry satistics All	 Read and interpret line graphs. Draw line graphs. Use line graphs to solve problems. Circles. Read and interpret pie charts. Pie charts with percentages. Draw pie charts. The mean. 	All
Year 6 Su	National Curriculum	Draw 2-D shapes using given dimensions and angles. Compare and classify geometric shapes based on their properties and sizes and find unknown anglesin any triangles, quadrilaterals andregular polygons. Recognise angles where they meetat a point, are on a straight line, orare vertically opposite, and find missing angles.	All	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. Interpret and construct pie chartsand line graphs and use these to solve problems. Calculate the mean as an average.	All

For progression in written calculations, refer to St Paul's Written Calculation Policy