# Primary Progression - Addition & Subtraction



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
າ & Subtraction: Represent, Use	• read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs • represent and use number bonds and related subtraction facts within 20	recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100     show that addition of two numbers can be done in any order (commutative) and subtraction of one	estimate the answer to a calculation and use inverse operations to check answers	estimate and use inverse operations to check answers to a calculation	use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	
Addition & Sul Recall, Repres	idus Within 20	number from another cannot  recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems		- V-00.00E-2		
	Autumn 2 Spring 1	Autumn 2	Autumn 2	Autumn 2	Autumn 2	

### Primary Progression - Addition & Subtraction



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Addition & Subtraction: Calculations	add and subtract one- digit and two-digit numbers to 20, including zero	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	<ul> <li>add and subtract numbers mentally, including:</li> <li>a three-digit number and ones</li> <li>a three-digit number and tens</li> <li>a three-digit number and undreds</li> <li>add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction</li> </ul>	add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate	add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)     add and subtract numbers mentally with increasingly large numbers	perform mental calculations, including with mixed operations and large numbers     use their knowledge of the order of operations to carry out calculations involving the four operations
	Autumn 2 Spring 1	Autumn 2	Autumn 2	Autumn 2	Autumn 2	Autumn 2
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### Primary Progression - Addition & Subtraction



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Solve Problems	• solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 =	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	solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why     solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	solve addition and subtraction multi-step problems in contexts deciding which operations and methods to use and why
	Autumn 2 Spring 1	Autumn 2	Autumn 2	Autumn 2	Autumn 2	Autumn 2

# Primary Progression - Algebra



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Algebra	solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ - 9	recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems	solve problems, including missing number problems		motic uses and common and accommon amounts and common amounts are so and common accommon acco	use simple formulae     generate and describ linear number sequences     express missing number problems algebraically     find pairs of number that satisfy an equation with two unknowns     enumerate possibilities of combinations of two variables.  Spring 3
	until Y6, algebraic	lgebraic notation is thinking starts mu 'missing number'	ch earlier as	Longer boliveen     collection units of     mageure fror     assemple, blormers to     merc, hope to     retinute, compare     astimute, compare     and colculate     and colculate	convert between control of children tunits of children tunits of children to constitute example. Blomeste and motive destination and military continuetre and military liter and following liter and military.  * Understant and use approprietals.	* sorve problems involving the conversion of units o meacure, using decimal notation up to three decimal places where places where very read, with and convert behwen



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions: Recognise and Write	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	recognise, find, name and write fractions  \[ \frac{1}{3}, \frac{1}{4}, \frac{2}{4} \text{ and } \frac{3}{4} \text{ of a length, shape, set of objects or quantity} \]  Spring 4	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     recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators     recognise and use fractions and use fractions as numbers: unit fractions and non-unit fractions with small denominators	count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.	<ul> <li>identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</li> <li>recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements &gt; 1 as a mixed number [for example, <sup>2</sup>/<sub>5</sub> + <sup>4</sup>/<sub>5</sub> = <sup>6</sup>/<sub>5</sub> = 1 <sup>1</sup>/<sub>5</sub>]</li> <li>Spring 2</li> </ul>	
	Summer 2	Recognise the equivalence of $\frac{2}{4}$ and	• recognise and show, using diagrams, equivalent fractions	• recognise and show, using diagrams, families of common	compare and order fractions whose denominators are all	use common factors to simplify fractions; use common
Fractions: Compare	7627	2	with small denominators compare and order unit fractions, and fractions with the same denominators	equivalent fractions	multiples of the same number	multiples to express fractions in the same denomination  compare and order fractions, including fractions > 1
		Spring 4	Summer 1	Spring 3	Spring 2	Autumn 3



. 3	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions: Calculations		• write simple fractions for example, $\frac{1}{2}$ of 6 = 3	• add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ ]	add and subtract fractions with the same denominator	add and subtract fractions with the same denominator and denominators that are multiples of the same number     multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	<ul> <li>add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions</li> <li>multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, \frac{1}{4} \times \frac{1}{2} = \frac{1}{8}]</li> <li>divide proper fractions by whole numbers [for example, \frac{1}{3} \div 2 = \frac{1}{6}]</li> </ul>
		Spring 4	Summer 1	Spring 3	Spring 3	Autumn 3
Fractions: Solve Problems	TALL TO STATE OF THE STATE OF T		solve problems that involve all of the above  Spring 5 Summer 1	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  Spring 3	A THE STATE OF THE	Asat 8



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Decimals: gnise and Write				<ul> <li>recognise and write decimal equivalents of any number of tenths or hundredths</li> <li>recognise and write decimal equivalents to <sup>1</sup>/<sub>4</sub>, <sup>3</sup>/<sub>2</sub>, <sup>3</sup>/<sub>4</sub></li> </ul>	<ul> <li>read and write decimal numbers as fractions [for example, 0.71 = \frac{71}{100}]</li> <li>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</li> </ul>	identify the value of each digit in numbers given to three decimal places
Decin Recognise				Spring 4 Summer 1	Spring 3	Spring 1
Decimals: Compare				round decimals with one decimal place to the nearest whole number     compare numbers with the same number of decimal places up to two decimal places  Summer 1	round decimals with two decimal places to the nearest whole number and to one decimal place     read, write, order and compare numbers with up to three decimal places  Spring 3	Service Property of the servic



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Decimals: Calculations & Problems				find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths	solve problems involving number up to three decimal places	multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places     multiply one-digit numbers with up to two decimal places by whole numbers     use written division methods in cases where the answer has up to two decimal places     solve problems which require answers to be rounded to specified degrees of accuracy
				Spring 4	Summer 1	Spring 1



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Fractions, Decimals and Percentages				solve simple measure and money problems involving fractions and decimals to two decimal places	<ul> <li>recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal</li> <li>solve problems which require knowing percentage and decimal equivalents of \(\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5} \) and those fractions with a denominator of a multiple of 10 or 25</li> </ul>	associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, \frac{3}{8}] recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
Fractic				Spring 3 Spring 4 Summer 1	Spring 3	Spring 1 Spring 2

#### Primary Progression - Geometry



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Geometry: 2-D Shapes	recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles]	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line     identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]     compare and sort compare and sort common 2-D shapes and everyday objects	draw 2-D shapes	compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes     identify lines of symmetry in 2-D shapes presented in different orientations	distinguish between regular and irregular polygons based on reasoning about equal sides and angles.     use the properties of rectangles to deduce related facts and find missing lengths and angles	draw 2-D shapes using given dimensions and angles     compare and classify geometric shapes based on their properties and sizes     illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
	Autumn 3	Spring 3	Summer 3	Summer 5	Summer 2	Summer 1
Geometry: 3-D Shapes	recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres].     compare and sort common 3-D shapes and everyday objects	make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	TO SECTION OF THE SEC	identify 3-D shapes, including cubes and other cuboids, from 2-D representations	recognise, describe     and build simple 3-D     shapes, including     making nets
	Autumn 3	Spring 3	Summer 3		Summer 2	Summer 1

# Primary Progression - Geometry



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Geometry: Angles & Lines			recognise angles as a property of shape or a description of a turn     identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle     identify horizontal and vertical lines and pairs of perpendicular and parallel lines	identify acute and obtuse angles and compare and order angles up to two right angles by size     identify lines of symmetry in 2-D shapes presented in different orientations     complete a simple symmetric figure with respect to a specific line of symmetry	<ul> <li>know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> <li>draw given angles, and measure them in degrees</li> <li>identify:</li> <li>angles at a point and one whole turn (total 360°)</li> <li>angles at a point on a straight line and ½ a turn (total 180°)</li> <li>other multiples of 90°</li> </ul>	find unknown angles in any triangles, quadrilaterals, and regular polygons recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
			Summer 3	Summer 5	Summer 2	Summer 1

### Primary Progression - Geometry



Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Geometry:  Position & Direction and movement, including whole, half, quarter and three-quarter turns	order and arrange combinations of mathematical objects in patterns and sequences     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 anticlockwise)		describe positions on a 2-D grid as coordinates in the first quadrant     describe movements between positions as translations of a given unit to the left/right and up/down     plot specified points and draw sides to complete a given polygon	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	describe positions on the full coordinate grid (all four quadrants)     draw and translate simple shapes on the coordinate plane, and reflect them in the axes
Summer 3	Spring 3 Summer 1		Summer 6	Summer 3	Autumn 4

#### Primary Progression - Measurement



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Using Measures	<ul> <li>compare, describe and solve practical problems for:         lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]</li> <li>mass/weight [for example, heavy/light, heavier than, lighter than]</li> <li>capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]</li> <li>time [for example, quicker, slower, earlier, later]</li> <li>measure and begin to record the following:</li> <li>lengths and heights</li> <li>mass/weight</li> <li>capacity and volume</li> <li>time (hours, minutes, seconds)</li> </ul>	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 results using >, < and =	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	Convert between different units of measure [for example, kilometre to metre; hour to minute] estimate, compare and calculate different measures  .	convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)     understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints     use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling	solve problems involving the calculation and conversion of units of measure, using decimal notation 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 smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places     convert between miles and kilometres
	Spring 3	Spring 5	Spring 4	Autumn 3	Summer 1	Spring 4
	Spring 4 Summer 6	Summer 4	Summer 4	Spring 2 Summer 3	Summer 4 Summer 5	

### Primary Progression - Measurement



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Money	recognise and know the value of different denominations of coins and notes	<ul> <li>recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value</li> <li>find different combinations of coins that equal the same amounts of money</li> <li>solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change</li> </ul>	add and subtract amounts of money to give change, using both £ and p in practical contexts  add and subtract amounts to give change, using both £ and p in practical contexts.	estimate, compare and calculate different measures, including money in pounds and pence	use all four operations to solve problems involving measure [for example, money]	
	Summer 5	Autumn 3	Spring 2	Summer 2	Summer 1	
	* apquance events in chromologica tarder carginings for carmple, before and sees, next, first, today, sees, next, first, today, somethy, striperous, morning, afaircons, and avening,	A company end sequence intervals of some tone to family write the time to five minutes, solveding syname painting the hour and draw the hericle on a	tell and write the little from an analogue from an analogue clock, including varieg from 1 to 2011 and 12-from 1 to 3011 and 12-from and 24-boar clocks     estimate and read	convert time between enologies and digital enologies and digital 12- and 24-hour clocks solve problems involving converting from hours to	solve problems involving convening between units of times	<ul> <li>use, read, with and convert between standard units, converting measurements of imperion a smalle unit of measure to larger unit and vor</li> </ul>

### Primary Progression - Measurement



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]     recognise and use	compare and sequence intervals of time tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks  stimate and read time with increasing	read, write and convert time between analogue and digital 12- and 24-hour clocks solve problems involving converting from hours to minutes; minutes to	solve problems involving converting between units of time	use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa
• recognise and u language relatin dates, including of the week, were months and year. • tell the time to thour and draw thands on a clock to show these times.	language relating to dates, including days of the week, weeks, months and years  • tell the time to the hour and half past the hour and draw the hands on a clock face to show these times	these times  • know the number of minutes in an hour and the number of hours in a day	accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example to calculate the time taken by particular events or tasks]	seconds; years to months; weeks to days	ever all four operations to solve operations involving mestions line final mestions (for example, money).	·
	Summer 6	Summer 3	. Summer 2	Summer 3	Summer 4	Year 5 Summer 4



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measurement: Perimeter, Area, Volume			measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres     find the area of rectilinear shapes by counting squares	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres     calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes     estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]	<ul> <li>recognise that shapes with the same areas can have different perimeters and vice versa</li> <li>recognise when it is possible to use formulae for area and volume of shapes</li> <li>calculate the area of parallelograms and triangles</li> <li>calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]</li> </ul>
		Annual state	Spring 4	Autumn 3 Spring 2	Autumn 5 Summer 5	Spring 5

### Primary Progression – Multiplication & Division



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication & Division: Recall, Represent, Use		recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	recall multiplication and division facts for multiplication tables up 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	identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers  know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers  establish whether a number up to 100 is prime and recall prime numbers up to 19  recognise and use square numbers, and the notation for squared (2) and cubed (3)	identify common factors, common multiples and prime numbers     use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
		Autumn 4 Spring 1	Autumn 3	Autumn 4 Spring 1	Autumn 4	Autumn 4



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
:uc		calculate     mathematical     statements for     multiplication and     division within the     multiplication tables     and write them using     the multiplication (x),     division (+) and     equals (=) signs	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	multiply two-digit and three-digit numbers by a one-digit number using formal written layout	multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers     multiply and divide numbers mentally drawing upon known facts	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication     divide numbers up to 4 digits by a two-digit whole number using the formal written
Multiplication & Division: Calculations	A STATE OF THE STA	The state of the s	progressing to formal written methods		divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	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 two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context  perform mental calculations, including with mixed operations
		Autumn 4	Autumn 3	Spring 1	Autumn 4 Spring 1	and large numbers
		Spring 1	Spring 1		Summer 1	Autumn 2

# Primary Progression – Multiplication & Division



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Multiplication & Division: Solve Problems	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	solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts	solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects	solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects	solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes     solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	solve problems involving addition, subtraction, multiplication and division
	Summer 1	Autumn 4 Spring 1	Spring 1	Spring 1	Autumn 4 Spring 1	Autumn 2
Multiplication & Division: Combined Operations	Year 1				solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	use their knowledge     of the order of operations to carry out calculations involving the four operations
Mult					Spring 1	Autumn 2

### Primary Progression – Place Value



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place Value: Counting	count to and across     100, forwards and     backwards, beginning     with 0 or 1, or from     any given number     Count numbers to     100 in numerals;     count in multiples of     twos, fives and tens      Autumn 1     Autumn 4     Spring 2     Summer 4	count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward  Autumn 1	count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number  Autumn 1 Autumn 3	count in multiples of 6, 7, 9, 25 and 1000     count backwards through zero to include negative numbers  Autumn 1	count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000     count forwards and backwards with positive and negative whole numbers, including through zero	
Place Value: Represent	identify and represent numbers using objects and pictorial representations     read and write numbers to 100 in numerals     read and write numbers from 1 to 20 in numerals and words.  Autumn 1  Autumn 4  Spring 2	read and write     numbers to at least     100 in numerals and     in words     identify, represent     and estimate     numbers using     different     representations,     including the number     line  Autumn 1	identify, represent and estimate numbers using different representations     read and write numbers up to 1000 in numerals and in words  Autumn 1	identify, represent and estimate numbers using different representations     read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value  Autumn 1	read, write, (order and compare) numbers to at least 1 000 000 and determine the value of each digit read Roman numerals to 1000 (M) and recognise years written in Roman numerals.  Autumn 1	read, write, (order and compare) numbers up to 10 000 000 and determine the value of each digit  Autumn 1

### Primary Progression – Place Value



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Place Value : Use PV and Compare	given a number, identify one more and one less  Autumn 1 Autumn 4 Spring 2 Summer 4	recognise the place value of each digit in a two-digit number (tens, ones) compare and order numbers from 0 up to 100; use <, > and = signs  Autumn 1	recognise the place value of each digit in a three-digit number (hundreds, tens, ones) compare and order numbers up to 1000  Autumn 1	find 1000 more or less than a given number recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000  Autumn 1	(read, write) order and compare numbers to at least 1 000 000 and determine the value of each digit  Autumn 1	• (read, write), order and compare numbers up to 10 000 000 and determine the value of each digit
Place Value: Problems& Rounding	At afree and a suit of a s	use place value and number facts to solve problems.	solve number problems and practical problems involving these ideas	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	interpret negative numbers in context     round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000     solve number problems and practical problems that involve all of the above	round any whole number to a required degree of accuracy     use negative numbers     in context, and calculate intervals across zero     solve number and practical problems that involve all of the above
- Ā		Autumn 1	. Autumn 1	Autumn 1	Autumn 1	Autumn 1

## Primary Progression - Ratio and Proportion



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Ratio and Proportion	rear r	rear Z	Teal 3	Teal 4	real J	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 the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison     solve problems involving similar shapes where the scale factor is known or can be found     solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
						Spring 6

### Primary Progression - Statistics



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Statistics: int and Interpret		interpret and construct simple pictograms, tally charts, block diagrams and simple tables	interpret and present data using bar charts, pictograms and tables	interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	complete, read and interpret information in tables, including timetables	interpret and construct pie charts and line graphs and use these to solve problems
Sta Present	Number / State	Spring 2	Spring 3	Summer 4	Autumn 3	Summer 3
Statistics: Solve Problems	Library Party	ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity     ask and answer questions about totalling and comparing categorical data	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	solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	solve comparison, sum and difference problems using information presented in a line graph	calculate and interpret the mean as an average
		Spring 2	Spring 3	Summer 4	Autumn 3	Summer 3