

Key Learning in Mathematics – Reception

Number – counting	Number – number sense	Measurement
Rote counting - Rote count from 1 - Rote count on from a given number between 1 and 20 - Rote count back from 20 to 0 - Rote count back from a given number between 0 and 20 - Know what number comes before or after a given number - Say a number between two given numbers - Rote count beyond 20	- Partition a set of objects in different ways using the terminology part - part - whole - Explore and represent the patterns in odd and even numbers - Understand that 'teen' numbers are a group of 10 plus another number - Understand 20 is the same as two groups of 10 - Recognise repeating patterns in the counting sequence i.e. 6, 7, 8, 9 and 16, 17, 18, 19 and 26, 27, 28, 29 etc.	Distance - Understand that measures of distance can have different names including length, width, height - Understand and use language to compare the length/width of two objects - Understand and use language to compare the height of two objects - Understand and use language of comparison when ordering three objects of different lengths/widths/heights - Understand the concept of the conservation of length/width/height
Counting objects - Understand that counting is to find out how many - Use one to one correspondence when counting - Understand the last number said is the number in the set - Count up to 20 objects, pictures, sounds and actions - Understand and use conservation of number - Use the word 'zero' to represent 'none' - Compare two sets of different objects saying which set is more, greater, fewer, less, same, equal - Order three or more sets of objects - State without counting (subitise) quantities within 5 - Make a sensible guess of quantities within 10	Number – number recognition - Recognise and identify numerals 0 to 20 - Select the numeral that represents a set of objects - Order numerals 0 to 20	Weight/mass - Understand the measurement of weight/mass (heavy/light) - Understand and use language to compare the weight/mass of two objects - Understand the concept of conservation of weight/mass
	Number – graphics - Represent amounts in their own ways, explaining what they mean - Represent and explain their thinking in their own ways - Write numerals 0 to 20	Volume/capacity - Understand the measurement of volume/capacity (empty/full/nearly) - Understand and use language to compare two of the same container holding different amounts - Understand and use the language of comparison when ordering three of the same container holding different amounts - Understand the concept of the conservation of volume/capacity
Number – calculating - Understand the concept of addition by practically combining sets of objects to find how many and use the terminology part – part – whole - Understand the concept of subtraction by practically removing one amount from within another to find how many are left and use the terminology part – part – whole - Relate subtraction to addition in practical situations using the terminology part – part – whole - Identify one more and one less than a given number - Identify two more and two less than a given number - Add two single-digit numbers totalling up to 10, using practical equipment - Add two single-digit numbers totalling greater than 10, using practical equipment - Subtract a single-digit number from a number up to 10, using practical equipment. - Subtract a single-digit number from a number greater than 10, using practical equipment - Automatically recall addition and subtraction facts up to 5 and some addition and subtraction facts to 10	Shape - Know that shapes can appear in different ways and be different sizes - Build and make models with 3-D shapes - Create and describe pictures using 2-D shapes - Name common 2-D shapes (circle, triangle, square rectangle, oblong rectangle) - Name common 3-D shapes (sphere, cube, cuboid) - Talk about shapes using mathematical language (straight, curved, sides, flat, solid) - Sort shapes according to their own criteria	Money - Understand that we need to pay for goods - Talk about things they want to spend their money on - Talk about different ways we can pay for things - Recognise that there are different coins - Recognise 1p coin - Use 1p coins to pay for objects
	Space - Understand and use positional language in everyday situations - Understand and use ordinal numbers when describing position - Understand and use the language of movement/direction - Describe and recognise patterns made of objects, numbers and shapes - Create patterns made of objects, numbers and shapes	Time - Talk about significant times of the day, e.g. home time, lunch time, snack time, bed time, etc. - Understand and use language – before, after, yesterday, today, tomorrow - Use the language of comparison when talking about time, e.g. longer/shorter; faster/slower - Sequence two or three familiar events and describe the sequence - Know the names of the days of the week - Say the names of the days of the week in order
Number – fractions - Understand that sharing is splitting an amount into equal parts - Understand that halving is sharing into two equal parts - Understand that doubling is adding the same number to itself - Automatically recall double facts to double 5	Statistics Sort objects and say what features they have in common	

Key Learning in Mathematics – Year 1

Number – number and place value	Number – addition and subtraction	Number – multiplication and division
- Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number - Count in multiples of twos, fives and tens - Read and write numbers to 100 in numerals - Read and write numbers from 1 to 20 in numerals and words - Identify and represent numbers using objects and pictorial representations including the number line - Use the language of: equal to, more than, less than (fewer), most, least - Given a number, identify one more and one less	- Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs - Represent and use number bonds and related subtraction facts within 20 - 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 $7 = \square - 9$	Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
Number – fractions	Geometry – properties of shapes	Measurement
- 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 and name common 2-D shapes, including rectangles (including squares), circles and triangles - Recognise and name common 3-D shapes, including cuboids (including cubes), pyramids and spheres	- Measure and begin to record: - lengths and heights, - mass/weight, - capacity and volume - time (hours/minutes/seconds) - Compare, describe and solve practical problems for: - lengths and heights (for example, long/short, longer/shorter, tall/short, double/half) - 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) - time (for example, quicker, slower, earlier, later) - Recognise and use language relating to dates, including days of the week, weeks, months and years - Sequence events in chronological order using language (for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening) - Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times - Recognise and know the value of different denominations of coins and notes
	Geometry – position and direction	
	- Describe movement, including whole, half, quarter and three-quarter turns - Describe position and direction	
	Statistics	
	- Sort objects, numbers and shapes to a given criterion and their own - Present and interpret data in block diagrams using practical equipment - Ask and answer simple questions by counting the number of objects in each category - Ask and answer questions by comparing categorical data	



Yearly overview

The yearly overview provides suggested timings for each block of learning, which can be adapted to suit different term dates or other requirements.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number Place value (within 10)					Number Addition and subtraction (within 10)					Geometry Shape	Consolidation
Spring	Number Place value (within 20)			Number Addition and subtraction (within 20)			Number Place value (within 50)	Measurement Length and height		Measurement Mass and volume		
Summer	Number Multiplication and division			Number Fractions		Geometry Position and direction	Number Place value (within 100)	Measurement Money	Measurement Time		Consolidation	

Key Learning in Mathematics – Year 2

Number – number and place value - Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward - Read and write numbers to at least 100 in numerals and in words - Recognise the place value of each digit in a two-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	Number – addition and subtraction - Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot - 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 - Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems - 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	Number – multiplication and division - 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 2, 5 and 10 multiplication tables, including recognising odd and even numbers - Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs - Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts
Number – fractions - Recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity - Write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	Geometry – properties of shapes - 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 circle on a cylinder and a triangle on a pyramid] Geometry – position and direction - Order/arrange combinations of mathematical objects in patterns/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 anti-clockwise) Statistics - Compare and sort <i>objects, numbers and</i> common 2-D and 3-D shapes and everyday objects - Interpret and construct simple pictograms, tally charts, block diagrams and simple tables - Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity - Ask and answer questions about totalling and comparing categorical data	Measurement - Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity and volume (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 = - Recognise and use symbols for pounds (£) and pence (p) - Combine amounts to make a particular value - Find different combinations of coins that equal the same amounts of money - 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 these times - Know the number of minutes in an hour and the number of hours in a day - Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change



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Autumn	Number Place value				Number Addition and subtraction				Geometry Shape			
Spring	Measurement Money	Number Multiplication and division						Measurement Length and height	Measurement Mass, capacity and temperature			
Summer	Number Fractions			Measurement Time		Statistics		Geometry Position and direction		Consolidation		

Key Learning in Mathematics – Year 3

Number – number and place value	Number – addition and subtraction	Number – multiplication and division
- Count from 0 in multiples of 4, 8, 50 and 100 - Count up and down in tenths - Read and write numbers up to 1000 in numerals and in words - Identify, represent and estimate numbers using different representations - Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) - Compare and order numbers up to 1000 - Find, 10 or 100 more or less than a given number - Solve number problems and practical problems involving these ideas	- Add and subtract numbers mentally, including: - a three-digit number and ones - a three-digit number and tens - a three-digit number and hundreds - Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction - Estimate the answer to a calculation and use inverse operations to check answers - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	- 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 that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods - Solve problems, including missing number problems, involving multiplication and division including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
Number – fractions	Geometry – properties of shapes	Measures
- Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators - Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators - Recognise and show, using diagrams, equivalent fractions with small denominators - Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] - Compare and order unit fractions, and fractions with the same denominators - Solve problems that involve all of the above	- Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them - 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	- Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) - Measure the perimeter of simple 2-D shapes - Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks - Estimate/read time with increasing accuracy to the nearest minute - Record/compare time in terms of seconds, minutes, hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon, 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] - Add and subtract amounts of money to give change, using both £ and p in practical contexts
	Geometry – position and direction Describe positions on a square grid labelled with letters and numbers	
	Statistics - 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	



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Autumn	Number Place value			Number Addition and subtraction				Number Multiplication and division A				
Spring	Number Multiplication and division B			Measurement Length and perimeter			Number Fractions A			Measurement Mass and capacity		
Summer	Number Fractions B		Measurement Money		Measurement Time			Geometry Shape		Statistics		Consolidation

Key Learning in Mathematics – Year 4

Number – number and place value - Count in multiples of 6, 7, 9, 25 and 1000 - Count backwards through zero to include negative numbers - Count up and down in hundredths - Recognise the place value of each digit in a four-digit number - Identify, represent and estimate numbers using different representations - Order and compare numbers beyond 1000 - Order and compare numbers with the same number of decimal places up to two decimal places - Find 10, 100 or 1000 more or less than a given number - Round any number to the nearest 10, 100 or 1000 - Round decimals (one decimal place) to the nearest whole number - Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer - Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value - Solve number and practical problems that involve all of the above and with increasingly large positive numbers	Number – addition and subtraction - Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate - Estimate; use inverse operations to check answers to a calculation - Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why	Number – multiplication and division - Recognise and use factor pairs and commutativity in mental calculations - 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 - Multiply two-digit and three-digit numbers by a one-digit number using formal written layout - Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects
Number – fractions and decimals - Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten - Recognise and show, using diagrams, families of common equivalent fractions - Recognise and write decimal equivalents of any number of tenths or hundredths - Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ - Add and subtract fractions with the same denominator - Solve simple measure and money problems involving fractions and decimals to two decimal places - Recognise that tenths arise from dividing objects into 10 equal parts and in dividing one-digit numbers or quantities by 10 (Year 3)	Geometry – properties of 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 - Complete a simple symmetric figure with respect to a specific line of symmetry - Identify acute and obtuse angles and compare and order angles up to two right angles by size	Measurement - Estimate, compare and calculate different measures, including money in pounds and pence - Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres - Find the area of rectilinear shapes by counting squares - Convert between different units of measure [e.g. kilometre to metre; hour to minute] - Read, write and convert time between analogue and digital 12- and 24-hour clocks - Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days
	Geometry – position and direction - Describe positions on a 2-D grid as coordinates in the first quadrant - Plot specified points and draw sides to complete a given polygon - Describe movements between positions as translations of a given unit to the left/right and up/down Statistics - Use a variety of sorting diagrams to compare and classify numbers and geometric shapes based on their properties and sizes - Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts, time graphs - Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	

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Autumn	Number Place value				Number Addition and subtraction			Measurement Area	Number Multiplication and division A			Consolidation
Spring	Number Multiplication and division B			Measurement Length and perimeter	Number Fractions				Number Decimals A			
Summer	Number Decimals B	Measurement Money		Measurement Time		Consolidation	Geometry Shape		Statistics	Geometry Position and direction		

Key Learning in Mathematics – Year 5

Number – number and place value - Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 - Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit - Read, write, order and compare numbers with up to 3 decimal places - Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 - Round decimals with two decimal places to the nearest whole number and to one decimal place - Multiply/divide whole numbers and decimals by 10, 100 and 1000 - Interpret negative numbers in context, count on and back with positive and negative whole numbers, including through zero - Read Roman numerals to 1000 (M); recognise years written as such - Solve number and practical problems that involve all of the above	Number – addition and subtraction - Add and subtract numbers mentally with increasingly large numbers - Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) - Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Number – multiplication and division - 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 (non-prime) numbers - Establish whether a number up to 100 is prime and recall prime numbers up to 19 - Recognise and use square (²) and cube (³) numbers, and notation - Multiply and divide numbers mentally drawing upon known facts - Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes - Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers - Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context - Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign - Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates
Number – fractions, decimals and percentages - Recognise mixed numbers and improper fractions and convert from one form to the other - Read and write decimal numbers as fractions (e.g. $0.71 = \frac{71}{100}$) - Compare and order fractions whose denominators are all multiples of the same number - Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths - Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents - Add and subtract fractions with denominators that are the same and that are multiples of the same number - Write statements > 1 as a mixed number (e.g. $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1 \frac{1}{5}$) - Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams - 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 - 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 fractions with a denominator of a multiple of 10 or 25 - 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 (Year 4)	Geometry – properties of shapes - 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 - Identify 3-D shapes from 2-D representations - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles - Draw given angles, and measure them in degrees (°) - Identify: - angles at a point and one whole turn (total 360°) - angles at a point on a straight line and half a turn (total 180°) - other multiples of 90° Geometry – position and direction - 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 Statistics - Complete, read and interpret information in tables and timetables - Solve comparison, sum and difference problems using information presented in a line graph	Measurement - Estimate volume ((e.g., using 1 cm³ blocks to build cuboids (including cubes)) and capacity (e.g. using water) - Convert between different units of metric measure - Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints - Measure/calculate the perimeter of composite rectilinear shapes - Calculate and compare the area of rectangle, use standard units square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes - Solve problems involving converting between units of time - Use all four operations to solve problems involving measure using decimal notation, including scaling



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Autumn	Number Place value			Number Addition and subtraction		Number Multiplication and division A			Number Fractions A			
Spring	Number Multiplication and division B			Number Fractions B		Number Decimals and percentages			Measurement Perimeter and area		Statistics	
Summer	Geometry Shape			Geometry Position and direction		Number Decimals			Number Negative numbers	Measurement Converting units		Measurement Volume



Key Learning in Mathematics – Year 6

Number – number and place value - Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit - Identify the value of each digit to three decimal places - Round any whole number to a required degree of accuracy - Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places - Use negative numbers in context, and calculate intervals across zero - Solve number and practical problems that involve all of the above	Number – addition and subtraction - Perform mental calculations including with mixed operations and large numbers - Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy - Use knowledge of the order of operations to carry out calculations - Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why - Solve problems involving all four operations	Number – multiplication and division - Identify common factors, common multiples and prime numbers - Perform mental calculations, including with mixed operations and large numbers - Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication - Multiply one-digit numbers with up to two decimal places by whole numbers - Divide numbers up to 4 digits by a two-digit whole number using the formal written methods of short or long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context - Use written division methods in cases where the answer has up to two decimal places - Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy - Use knowledge of the order of operations to carry out calculations - Solve problems involving all four operations
Number – fractions, decimals and percentages - Compare and order fractions, including fractions > 1 - Use common factors to simplify fractions; use common multiples to express fractions in the same denomination - Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts - Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375 and $\frac{3}{8}$) - 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. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$) - Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$) - Solve problems which require answers to be rounded to specified degrees of accuracy - Solve problems involving the calculation of percentages (e.g. of measures and such as 15% of 260) and the use of percentages for comparison	Geometry – properties of shapes - Compare/classify geometric shapes based on the properties and sizes - Draw 2-D shapes using given dimensions and angles - Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius - Recognise, describe and build simple 3-D shapes, including making nets - Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles	
	Geometry – position and direction - 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	
	Statistics - Interpret and construct pie charts and line graphs and use these to solve problems - Calculate and interpret the mean as an average	
Ratio and proportion		Measurement - Use, read and write standard units of length, mass, volume and time using decimal notation to three decimal places - Convert between standard units of length, mass, volume and time using decimal notation to three decimal places - Convert between miles and kilometres - Recognise that shapes with the same areas can have different perimeters and vice versa - Calculate the area of parallelograms and triangles - Recognise when it is possible to use formulae for area and volume of shapes - Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres
	Algebra	



• Solve problems involving the relative sizes of two quantities where missing values can be found using integer multiplication/division facts • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples • Solve problems involving similar shapes where the scale factor is known or can be found	• Use simple formulae • Generate and describe linear number sequences • Express missing number problems algebraically • Find pairs of numbers that satisfy an equation with two unknowns • Enumerate possibilities of combinations of two variables	(cm^3) and cubic metres (m^3), and extending to other units (e.g. mm^3 and km^3) • Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
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Autumn	Number Place value		Number Addition, subtraction, multiplication and division					Number Fractions A		Number Fractions B		Measurement Converting units
Spring	Ratio		Algebra		Number Decimals		Number Fractions, decimals and percentages		Measurement Area, perimeter and volume		Statistics	
Summer	Geometry Shape			Geometry Position and direction	Themed projects, consolidation and problem solving							