

2-3 Years Old

Counting and Place Value	Addition and Subtraction	Multiplication and Division	Measurement- money	Measurement- time	Measurement	Shape	Fractions	Decimals	Statistics
<p>Reacts to changes of amounts in a group of up to 3 objects</p> <p>Takes part in finger rhymes with numbers</p> <p>Says some counting words</p> <p>Begins to say numbers in order, some of which are in the right order (ordinality)</p>	<p>Beginning to compare and recognise changes in numbers of things, using words like more, lots or 'same'</p>			<p>Beginning to understand some talk about immediate past and future</p> <p>Beginning to anticipate times of the day such as mealtimes or home time</p>	<p>Enjoys filling/emptying containers</p> <p>Explores capacity by filling/emptying or containers, e.g. fits toys in a pram</p> <p>Explores differences in size, length, weight and capacity</p> <p>Investigates fitting themselves inside and moving through spaces</p> <p>Enjoys using blocks to create simple structures & arrangements</p>	<p>Beginning to select a shape for a specific space</p> <p>Pushes objects through different shaped holes & attempts to fit shapes into spaces on inset boards or puzzles</p> <p>Enjoys using blocks to create simple structures & arrangements</p> <p>Recognises that two objects have the same shape</p> <p>Responds to some spatial and positional language</p>			

3-4 Years Old

Counting and Place Value	Addition and Subtraction	Multiplication and Division	Measurement- money	Measurement- time	Measurement	Shape	Fractions	Decimals	Statistics
<p>Beginning to count on their fingers.</p> <p>Recites numbers past 5 / numbers to 10 \ secure _</p> <p>Quickly subitises one, two and three objects (without counting)</p> <p>Counts up to five items, recognising that the last number said represents the total counted so far (cardinal principle)</p>	<p>Solve real life mathematical problems with numbers up to 5</p> <p>Through play and exploration, beginning to learn that numbers are made up (composed) of smaller numbers</p> <p>Beginning to recognise that each counting number is one more than the one before</p> <p>Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same</p>			<p>Recalls a sequence of events in everyday life and stories</p>	<p>Explores differences in size, length, weight and capacity</p> <p>Makes comparisons between objects relating to size, length, weight & capacity</p> <p>In meaningful contexts, finds the longer or shorter, heavier or lighter and more/less full of two items</p>	<p>Responds to both informal language and common shape names</p> <p>Talks about 2D & 3D shapes using informal & mathematical language sides, corners</p> <p>Shows awareness of shape similarities and differences between objects</p> <p>Predicts, moves and rotates objects to fit the space or create the shape they would like</p> <p>Explores and adds to simple linear patterns of two or three repeating items, e.g. stick, leaf (AB) or stick, leaf, stone (ABC)</p>			

Reception

Counting and Place Value	Addition and Subtraction	Multiplication and Division	Measurement- money	Measurement- time	Measurement	Shape	Fractions	Decimals	Statistics
<p>Subitises to 3/ 5/10</p> <p>Recites number sequence forwards to 10 / backwards from 10</p> <p>Recognises numerals and links to amounts - 1-5 / 1-10</p> <p>Counts out up to 10 objects from a larger group</p> <p>Have a deep understanding of number to 10, including the composition of each number;</p> <p>Subitise (recognise quantities without counting) up to 5;</p> <p>Verbally count beyond 20, recognising the pattern of the counting system;</p> <p>Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;</p> <p>Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally</p>	<p>Explores the composition of numbers to 10 - exploring partitioning in different ways with a wide range of objects</p> <p>In practical activities, adds one and subtracts one with numbers to 10</p> <p>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.</p>				<p>Compares length / weight \ capacity__</p> <p>Becomes familiar with measuring tools in everyday experiences and play</p> <p>Tackles problems involving prediction and discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy</p>	<p>Spots patterns in the environment, beginning to identify the pattern rule</p> <p>Can continue/ copy \ create __ alternating patterns</p> <p>Uses mathematical terms to name and describe 2D shapes</p> <p>Uses spatial language, including following and giving directions, using relative terms and describing what they see from different viewpoints</p>			

Year 1

Counting and Place Value	Addition and Subtraction	Multiplication and Division	Measurement- money	Measurement- time	Measurement	Shape	Fractions	Decimals	Statistics
<p>Count to and across 100, forwards and backwards, beginning with 0 or 1 or from any given number</p> <p>Count numbers to 100 in numerals; count in multiples of two, fives and tens</p> <p>Identify and represent numbers using objects and pictorial representation</p> <p>Read and Write numbers to 100 in numerals</p> <p>Read and write numbers from 1 to 20 in numerals and words</p> <p>Given a number, identify one more and one less</p> <p style="text-align: center;">Autumn 1 Autumn 4 Spring 2 Summer 4</p>	<p>Add and subtract one-digit and two-digit numbers to 20, including zero</p> <p style="text-align: center;">Autumn 1 Spring 1</p> <p>Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations</p> <p>Missing number problems such as $7 = ? - 9$</p> <p style="text-align: center;">Algebra</p> <p>Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representation, and missing number problems such as $7 = ? - 9$</p>	<p>Solve one-step problems involving multiplication and division, by calculating using concrete objects, pictorial representations and arrays with the support of the teacher</p> <p style="text-align: center;">Summer 1</p>	<p>Recognise and know the value of different denominations of coins and notes</p> <p style="text-align: center;">Summer 5</p>	<p>Compare, describe and solve practical problems for:</p> <ul style="list-style-type: none"> - time <p>Measure and begin to record the following:</p> <ul style="list-style-type: none"> - time (hours, minutes, seconds) <p style="text-align: center;">Summer 6</p> <p>Sequence events in chronological order using language</p> <p>Recognise and use language relating to dates, including days of the week, weeks, months and years</p> <p>Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times</p> <p style="text-align: center;">Summer 6</p>	<p>Compare, describe and solve practical problems for:</p> <ul style="list-style-type: none"> - lengths and heights - mass/weight - capacity and volume <p>Measure and begin to record the following:</p> <ul style="list-style-type: none"> - length and heights - mass/weight - capacity and volume <p style="text-align: center;">Spring 3 Spring 4</p>	<p>Recognise and name common 2D shapes (for example rectangles (including squares), circles and triangles)</p> <p style="text-align: center;">Spring 3</p> <p>Recognise and name common 3D shapes (for example, cuboids (including cubes), pyramids and spheres).</p> <p style="text-align: center;">Autumn 3</p> <p>Describe position, direction, and movement, including whole, half, quarter, and three-quarter turns</p> <p style="text-align: center;">Summer 3</p>	<p>Recognise, find and name a half as one of two equal parts of an object, shape or quantity</p> <p>Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity</p> <p style="text-align: center;">Summer 2</p>		

Year 2

Counting and Place Value	Addition and Subtraction	Multiplication and Division	Measurement- money	Measurement- time	Measurement	Shape	Fractions	Decimals	Statistics
<p>Count in Steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.</p> <p>Read and write numbers to at least 100 in numerals and in words</p> <p>Identify, represent and estimate numbers using different representations, including the number line</p> <p>Recognise the place value of each digit in a two-digit number (tens, ones)</p> <p>Compare and order numbers from 0 up to 100</p> <p>Use <, > and = signs</p> <p>Use place value and number facts to solve problems Autumn 1</p>	<p>Add and subtract numbers using concrete objects and pictorial representations, and mentally including:</p> <ul style="list-style-type: none"> - A two-digit number and ones - A two-digit number and tens - Two two-digit numbers - Adding three one-digit numbers <p>Autumn 2</p> <p>Solve problems with addition and subtract</p> <ul style="list-style-type: none"> - Using concrete objects and pictorial representations including those involving numbers, quantities, and measure - Applying their increasing knowledge of mental and written methods <p style="text-align: center;">Algebra</p> <p>Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems</p>	<p>Recall and multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers</p> <p>Show that multiplication of two number can be done in any order (commutative) and division of one number by another cannot</p> <p>Calculate mathematical statements for multiplication and division within the tables and write them using the multiplication, division and equals symbol</p> <p>Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts</p> <p style="text-align: center;">Autumn 4 Spring 2</p>	<p>Recognise and use symbols for pounds and pence; combine amounts to make a particular value</p> <p>Find different combinations of coins that equal the same amounts of money</p> <p>Solve simple problems in a practical context involving addition and subtraction of money of the same unit including giving change.</p> <p style="text-align: center;">Autumn 3</p>	<p>Compare and sequence intervals of time</p> <p>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.</p> <p>Know the number of minutes in an hour and the number of hours in a day.</p> <p style="text-align: center;">Summer 3</p>	<p>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</p> <p>Compare and order lengths, mass, volume/capacity and record the results using >,< and =</p> <p style="text-align: center;">Spring 5 Summer 4</p>	<p>Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line</p> <p>Identify 2D shapes on the surface of 3D shapes, (for example, a circle on a cylinder and a triangle on pyramid)</p> <p>Compare and sort common 2D shapes and everyday objects</p> <p style="text-align: center;">Spring 3</p> <p>Recognise and name common 3D shapes (for example, cuboids, (including cubes), pyramids and spheres).</p> <p>Compare and sort common 3D shapes and everyday objects</p> <p style="text-align: center;">Spring 3</p> <p>Order and arrange combinations of mathematical objects in patterns and sequences</p> <p>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)</p> <p style="text-align: center;">Spring 3 Summer 1</p>	<p>Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity</p> <p style="text-align: center;">Spring 4</p> <p>Recognise the equivalence of 2/4 and 1/2</p> <p style="text-align: center;">Spring 4</p> <p>Write simple fractions for example, 1/2 of 6 = 3</p> <p style="text-align: center;">Spring 4</p>	<p>Interpret and construct simple pictograms, tally charts, block diagrams and simple tables</p> <p style="text-align: center;">Spring 2</p> <p>Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity</p> <p>Ask and answer questions about totalling and comparing categorical data</p> <p style="text-align: center;">Spring 2</p>	

Year 3

Counting and Place Value	Addition and Subtraction	Multiplication and Division	Measurement- money	Measurement- time	Measurement	Shape	Fractions	Decimals	Statistics
<p>Count in 0 in multiples of 4, 8 50 and 100</p> <p>Find 10 or 100 more or less than given number</p> <p>Identify, represent and estimate numbers using different representations</p> <p>Read and write numbers up to 1,000 in numerals and in words</p> <p>Recognise the place value in a three digit number (hundreds, tens and ones)</p> <p>Compare and order numbers up to 1,000</p> <p>Solve number problems and practical problems involving these ideas.</p> <p style="text-align: center;">Autumn 1</p>	<p>Add and subtract numbers mentally, including</p> <ul style="list-style-type: none"> - A three-digit number and ones - A three-digit number and tens - a three-digit number and hundreds <p>Add and subtract numbers with up to three digits using formal written methods of columnar addition and subtraction</p> <p>Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction.</p>	<p>Recall and use multiplication and division facts for 3, 4 and 8 multiplication tables</p> <p>Multiply two-digit and three-digit numbers by a one-digit number using formal written layout</p> <p>Solve problems involving multiplication and division including positive integer scaling problems and correspondence problems in which n objects are connected to m objects</p>	<p>Add and subtract amounts of money to give change, using both £ and p in practical contexts</p> <p style="text-align: center;">Spring 2</p>	<p>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</p> <p>Estimate and read time with increasing accuracy to the nearest minutes; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight</p> <p>Know the number of seconds in a minute and the number of days in each month, year and leap year</p> <p>Compare durations of events (for example to calculate the time taken by particular events or tasks).</p> <p style="text-align: center;">Summer 2</p>	<p>Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)</p> <p style="text-align: center;">Spring 4 Summer 4</p>	<p>Draw 2D shapes</p> <p style="text-align: center;">Summer 3</p> <p>Make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.</p> <p style="text-align: center;">Summer 3</p> <p>Recognise angles as a property of shape or a description of a turn</p> <p>Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn</p> <p>Identify whether angles are greater than or less than a right angle</p> <p>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</p> <p style="text-align: center;">Summer 3</p>	<p>Count up and down in tenths</p> <p>Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10</p> <p>Recognise, find and write fractions of a discrete set of objects as unit fractions and non-unit fractions</p> <p>Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators</p> <p style="text-align: center;">Spring 5</p> <p>Recognise and show, using diagrams, equivalent fractions with small denominators</p> <p>Compare and order unit fractions, and fractions with the same denominator</p> <p style="text-align: center;">Summer 1</p> <p>Add and subtract fractions with the same denominator with one whole</p> <p style="text-align: center;">Summer 1</p> <p>Solve problems that involve all the above</p> <p style="text-align: center;">Spring 5 and Summer 1</p>		<p>Interpret and present data using bar charts, pictograms, and tables</p> <p style="text-align: center;">Spring 3</p> <p>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</p> <p style="text-align: center;">Spring 3</p>
		Algebra			Perimeter, Area and Volume				
		Solve problems, including missing number problems			Measure the perimeter of simple 2-D shapes				
					Spring 4				

Year 4

Counting and Place Value	Addition and Subtraction	Multiplication and Division	Measurement- money	Measurement- time	Measurement	Shape	Fractions	Decimals and Percentages	Statistics
Count in multiples of 6, 7, 9, 25 and 1000 Count backwards through zero to include negative numbers Identify, represent and estimate numbers using different representations Read Roman numerals to 100 and know that the Roman numeral system evolved to include to zero Find 1,000 more and 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 1,000 Round any number to the nearest 10, 100 or 1,000 Solve number and practical problems that involve all the increasingly large positive numbers Autumn1	Add and subtract numbers with more than 4 digits using the formal written methods of columnar addition and subtraction where appropriate Solve addition and Subtraction two-step problems in context, deciding which operations and methods to use and why.	Recall multiplication and division facts for the multiplication tables up to 12 x 12 Use place value, know 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 one-digit number using a formal written layout Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integers scaling problems and harder correspondence problems such as n objects are connected to m objects Autumn 4 Spring 1	Estimate, compare and calculate different measures, including money in pounds and pence Summer 2	Convert between different units of hour to minute Read, write and convert time between analogue and digital 12- and 24-hour clocks Solve problems involving problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. Summer 3	Convert between different units of measure (for example, kilometre to metre) Estimate, compare and calculate different measures Autumn 3 Spring 2	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Identify lines of symmetry in 2D shapes presented in different orientations. Summer 5 Identify acute and obtuse angles and compare and order angles up to two right angles by size Identify line of symmetry in 2D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry Summer 5 Describe position on a 2D grid as coordinates in the first quadrant Describe movements between positions as translation of a given unit to the left/right and up/down Plot specified points and draw sides to complete a given polygon Summer 6	Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten Spring 3 Recognise and show, using diagrams, families of common equivalent fractions Spring 3 Add and subtract fractions with the same denominator Spring 3 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	Recognise and write decimal equivalents of any number of tenths or hundredths Recognise and write decimal equivalent to $\frac{1}{4}$, $\frac{1}{2}$, 3.4 Spring 4 and Summer 1 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 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. Spring 4 Solve simple measure and money problems involving fractions and decimals to two decimal places Spring 3, 4 and Summer 1	Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Summer 4 Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. Summer 4
					Perimeter, Area and Volume				
					Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Find the Area of rectilinear shapes by counting squares. Autumn 3 Spring 2				

Year 5

Counting and Place Value	Addition and Subtraction	Multiplication and Division	Measurement- money	Measurement- time	Measurement	Shape	Fractions	Decimals and Percentages	Statistics
<p>Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000</p> <p>Count forwards and backwards with positive and negative whole numbers, including zero</p> <p>Read and write numbers to at least 1,000,000 and determine the value of each digit</p> <p>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</p> <p>Order and compare numbers to 1,000,000 and determine the value of each digit.</p> <p>Interpret negative number in context</p> <p>Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000, and 100,000</p> <p>Solve number problems and practical problems that involve all the above.</p> <p style="text-align: center;">Autumn 1</p>	<p>Add and subtract whole numbers with more than 4 digits including using formal written methods (columnar addition and subtraction)</p> <p>Add and subtract numbers mentally with increasingly large numbers</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Solve problems involving addition, subtraction, multiplication and division and a combinations of these, including the meaning of the equals sign.</p>	<p>Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers</p> <p>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</p> <p>Establish whether number up to 100 is prime and recall prime numbers up to 19</p> <p>Recognise and use square numbers and cube numbers, and the notation for squared and cubed.</p> <p>Multiply numbers up to 4 digits by a one-digit or two-digit number using a formal written method, including long multiplication for two-digit numbers</p> <p>Multiply and divide number mentally drawing upon known facts</p> <p>Divide numbers up to 4 digits by one-digit number using the formal written method of short division and interpret remainders appropriately for the context</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</p> <p>Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes</p> <p>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.</p> <p>Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign</p> <p style="text-align: center;">Autumn 4 Spring 1 Summer 1</p>	<p>Summer 1</p>	<p>Solve problems involving converting between units of time.</p>	<p>Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p> <p>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</p> <p>Use all four operations to solve problems involving measure (for example, length, mass volume, money) using decimal notation, including scaling.</p> <p style="text-align: center;">Summer 1 Summer 4 Summer 5</p> <p style="text-align: center;">Perimeter, Area and Volume</p> <p>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p> <p>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</p> <p>Estimate volume (for example using 1 cm³ blocks to build cuboids (including cubes) and capacity (for example, using water)</p> <p style="text-align: center;">Autumn 5 Summer 5</p>	<p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles</p> <p style="text-align: center;">Summer 2</p> <p>Identify 3D shapes, including cubes and other cuboids, from 2D representations.</p> <p style="text-align: center;">Summer 2</p> <p>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</p> <p>Draw given angles, and measure them in degrees</p> <p>Identify:</p> <ul style="list-style-type: none"> - Angles at a point and one whole turn (total 360°) - Angles at a point on a straight line and ½ a turn (total 180°) - Other multiples of 90° <p style="text-align: center;">Summer 2</p> <p>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</p> <p style="text-align: center;">Summer 3</p>	<p>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</p> <p>Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number (for example, 2/5+4/5=6/5=11/5)</p> <p style="text-align: center;">Spring 2</p> <p>Compare and order fractions whose denominators are all the multiples of the same number</p> <p style="text-align: center;">Spring 2</p> <p>Add and subtract fractions with the same denominator that are multiples of the same number</p> <p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</p> <p style="text-align: center;">Spring 3</p>	<p>Read and write decimal numbers as fractions (0.71 = 71/100)</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.</p> <p style="text-align: center;">Spring 3</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place</p> <p>Read, write, order and compare numbers with up to three decimal places</p> <p style="text-align: center;">Spring 3</p> <p>Solve problems involving number up to three decimal places</p> <p style="text-align: center;">Summer 1</p> <p>Recognise the per cent symbol (%) and understand that per cent relates to 'number of part per hundred', and write percentages as a fraction with denominator 100, and as a decimal</p> <p>Solve problems which require knowing percentage and decimal equivalents of ½, ¼, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25</p> <p style="text-align: center;">Spring 3</p>	<p>Complete, read and interpret information in tables, including timetables</p> <p style="text-align: center;">Autumn 3</p> <p>Solve comparison, sum and difference problems using information presented in a line graph</p> <p style="text-align: center;">Autumn 3</p>

Year 6

Counting and Place Value	Addition and Subtraction	Multiplication and Division	Measurement- money	Measurement- time	Measurement	Shape	Fractions	Decimals, Percentages Ration and Proportion	Statistics
<p>Read and write numbers up to 1,000,000 and determine the place value of each digit</p> <p>Order and compare numbers up to 10,000,000 and determine the place value of each digit</p> <p>Round any number to a required degree of accuracy</p> <p>Use negative numbers in context and calculate intervals across zero</p> <p>Solve Number and practical problems that involve all the of the above.</p>	<p>Perform mental calculations, including with mixed operations and large numbers</p> <p>Use their knowledge of the order of operations to carry out calculations involving the four operations.</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p>	<p>Identify common factors, common multiples, and prime numbers</p> <p>Use estimation to check answers to calculations and determine, in the context of problem, an appropriate degree of accuracy.</p> <p>Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long division</p> <p>Divide numbers up to 4 digits by a two-digit Whole number using the formal written method of long division, and interpret remainders as whole number remainders, factions or by rounding as appropriate for the context.</p> <p>Divide numbers up to 4 digits by two-digits number using the formal written method of short division where appropriate, interpreting remainders according to the context.</p> <p>Perform mental calculations, including with mixed operations and large numbers</p> <p>Solve problems involving addition, subtraction, multiplication and division.</p> <p>Use their knowledge of the order of operations to carry out calculations involving the four operations.</p>		<p>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.</p> <p style="text-align: center;">Year 5 Summer 4</p>	<p>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate</p> <p>Use, read, write and convert between standards units, converting measurements of length, mass, volume and time from smaller unit of measure to larger unit and vice versa, using decimal notation to up to three decimal places</p> <p>Convert between miles and kilometres.</p> <p style="text-align: center;">Spring 4</p>	<p>Draw 2D shapes using given dimensions and angles</p> <p>Compare and classify geometric shapes based on their properties and sizes</p> <p>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p> <p style="text-align: center;">Summer 1</p> <p>Recognise, describe and build simple 3D shapes, including make nets</p> <p style="text-align: center;">Summer 1</p> <p>Find unknown angles in any triangles, quadrilaterals, and regular polygons</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</p> <p style="text-align: center;">Summer 1</p> <p>Describe positions on the full coordinate grid (all four quadrants)</p> <p>Draw and translate simple shapes on the coordinate planes and reflect them in the axes.</p> <p style="text-align: center;">Autumn 4</p>	<p>Use common factors to simplify fractions</p> <p>Use common multiples to express fractions in the same denominations</p> <p>Compare and order fractions including fraction >1</p> <p>Add and subtract fractions with different denominators and mixed numbers using the concept of equivalent fractions</p> <p>Multiply simple pairs of proper fractions, writing the answer in its simplest form</p> <p>Divide proper fractions by whole numbers</p> <p style="text-align: center;">Autumn 3</p>	<p>Identify the value of each digit in numbers given to three decimal places</p> <p style="text-align: center;">Spring 1</p> <p>Multiply and divide numbers by 10, 100, and 1000 giving answers up to three decimal places</p> <p>Multiply one-digit numbers with up to two decimal places by whole numbers</p> <p>Use written division methods in cases where the answer has up to two decimal places</p> <p>Solve problems which require answers to be rounded to specified degrees of accuracy</p> <p style="text-align: center;">Spring 1</p> <p>Associate a fraction with division and calculate decimal fraction equivalents (for example 0.375) for a simple fraction (for example 3/6)</p> <p>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</p> <p style="text-align: center;">Spring 1 and 2</p> <p>Solve problems involving the relative sized of two quantities where missing values can be found by using integer multiplication and division facts</p> <p>Solve problems involving the calculation of percentages (15% of 360) and the use of percentages for comparison</p> <p>Solve problems involving similar shapes where the scale factor is known or can be found</p> <p>Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples</p> <p style="text-align: center;">Spring 6</p>	<p>Interpret and construct pie charts and line graphs and use these to solve problems</p> <p style="text-align: center;">Summer 3</p> <p>Calculate and interpret the mean as an average</p> <p style="text-align: center;">Summer 3</p>
		Autumn 2			Perimeter, Area and Volume				
		Algebra			<p>Recognise that shapes with the same area can have different perimeters and vice versa</p> <p>Recognise when it is possible to use formulae for area and volume of shapes</p> <p>Calculate the areas of parallelograms and triangles</p> <p>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)</p> <p style="text-align: center;">Spring 5</p>				