| Number and Place Value |  |  |  |
| :---: | :---: | :---: | :---: |
| Counting |  |  |  |
| Three and Four-YearOlds | Mathematics |  | - Recite numbers past5. <br> - Say one number name for each item in order: $1,2,3,4,5$. <br> - Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). |
| Reception | Mathematics |  | - Count objects, actions and sounds. <br> - Count beyond ten. |
| ELG | Mathematics | Numerical Patterns | - Verbally count beyond 20, recognising the pattern of the counting system. |
| Identifying, Representing and Estimating Numbers |  |  |  |
| Three and Four-YearOlds | Mathematics |  | - Develop fast recognition of up to 3 objects, without having to count them individually ('subitising'). <br> - Show 'finger numbers' up to 5 . <br> - Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 . <br> - Experiment with their own symbols and marks as well as numerals. |
| Reception | Mathematics |  | - Subitise. <br> - Link the number symbol (numeral) with its cardinal number value. |
| ELG | Mathematics | Number | - Subitise (recognising quantities without counting) up to 5. |


| Number and Place Value |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. <br> Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens. <br> Given a number, identify one more and one less. <br> Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, leas. <br> Read and write numbers from 1 to 20 in numerals and words. | Count in steps of 2, 3, and 5 from 0 , and in tens from any number, forward and backward. <br> Recognise the place value of each digit in a two-digit number (tens, ones). <br> Identify, represent and estimate numbers using different representations, including the number line. <br> Compare and order numbers from 0 up to 100; use <, > and = signs. <br> Read and write numbers to at least 100 in numerals and in words. <br> Use place value and number facts to solve problems. | Count from 0 in multiples of $4,8,50$ and 100 ; find 10 or 100 more or less than a given number. <br> Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). <br> Compare and order numbers up to 1000 <br> Identify, represent and estimate numbers using different representations. <br> Read and write numbers up to 1000 in numerals and in words. <br> Solve number problems and practical problems involving these ideas. | Count in multiples of 6, 7, 9, 25 and 1000. <br> Find 1000nmore or less than a given number. <br> Count backwards through zero to include negative numbers. <br> Order and compare numbers beyond 1000. <br> Round any number to the nearest 10, 100 or 1000. <br> Solve number and practical problems that involve all of the above and with increasingly large positive numbers. <br> Read Roman numerals to 100 (I to C) and know that over time, he numeral system changed to include the concept to zero and place value. | Read, write, order and compare numbers up to at least 1,000,000 and determine the value of each digit. <br> Count forwards or backwards in steps o powers of 10 for any given number up to 1,000,000. <br> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. <br> Round any number up to $1,000,000$ to the nearest 10 , 100, 1000, 10,000 and 100,000. <br> Solve number problems and practical problems that involve all of the above. <br> Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. | Read, write, order and compare numbers up to 10,000,000and determine the value of each digit. <br> Round any whole number to a required degree of accuracy. <br> Use negative numbers in context, and calculate intervals across zero. <br> Solve number and practical problems that involve all of the above. |


| Reading and Writing Numbers |  |  |  |
| :---: | :---: | :---: | :---: |
| Three and Four-YearOlds | Mathematics |  | - Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 . <br> - Experiment with their own symbols and marks as well as numerals. |
| Reception | Mathematics |  | - Link the number symbol (numeral) with its cardinal number value. |
| Compare and Order Numbers |  |  |  |
| Three and Four-YearOlds | Mathematics |  | - Compare quantities using language: 'more than', 'fewer than'. |
| Reception | Mathematics |  | - Compare numbers. |
| ELG | Mathematics | Numerical Patterns | - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity. |
| Understanding Place Value |  |  |  |
| Reception | Mathematics |  | - Understand the 'one more than/one less than' relationship between consecutive numbers. <br> - Explore the composition of numbers to 10. |
| ELG | Mathematics | Number | - Have a deep understanding of numbers to 10, including the composition of each number. |
| Solve Problems |  |  |  |
| Three and Four-YearOlds | Mathematics |  | - Solve real world mathematical problems with numbers up to 5 . |


| Addition and Subtraction |  |  |  |
| :---: | :---: | :---: | :---: |
| Mental Calculations |  |  |  |
| Reception | Mathematics |  | - Automatically recall number bonds for numbers 0-5 and some to 10. |
| ELG | Mathematics | Number | - 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. |
| Solve Problems |  |  |  |
| ELG | Mathematics | Numerical Patterns | - Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly. |

Number: Addition and Subtraction

| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 $(+-x \div)$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs <br> Represent and use number bonds and related subtraction facts within 20 <br> Add and subtract onedigit and two-digit numbers to 20 including zero. <br> Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=$ _- 9 . | Solve problems with addition and subtraction: <br> * using concrete objects and pictorial representations, including those involving numbers, quantities and measures <br> * applying their increasing knowledge of mental and written methods. <br> Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 . <br> Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones <br> a twodigit number and tens two two-digit numbers adding three one-digit numbers. <br> Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. | Add and subtract numbers mentally, including: <br> * a three-digit number and ones <br> * a three-digit number and tens. <br> * a three-digit number and hundreds. <br> Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. <br> Estimate the answer to a calculation and use inverse operations to check answers. <br> Solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction. | Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. <br> Estimate and use inverse operations to check answers to a calculation. <br> Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. | Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction). <br> Add and subtract numbers mentally with increasingly large numbers. <br> Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. <br> Solve addition and subtraction multistep problems in context, deciding which operations and methods to use and why. | Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. <br> Divide up to 4 digits by a twodigit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. <br> 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. <br> Perform mental calculations, including mixed operations and large numbers. <br> Identify common factors, common multiples and prime numbers. <br> Use their knowledge of the order of operations to carry |


| Recognise and use the <br> inverse relationship <br> between addition and <br> subtraction and use this to <br> check calculations and <br> solve missing number <br> problems. |  |  | out calculations involving the <br> four operations. <br> Solve addition and subtraction <br> multi-step problems in <br> contexts, deciding which <br> operations and methods to <br> use and why. |
| :--- | :--- | :--- | :--- | :--- |


| Number: Multiplication and Division |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| 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. | Recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers. <br> Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals (=) signs. <br> Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. <br> Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. | Recall and use multiplication and division facts for the 3,4 and 8 multiplication tables. <br> 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. <br> 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. | Recall multiplication and division facts for multiplication table sup to $12 \times 12$. <br> 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. <br> Recognise and use factor pairs and commutativity in mental calculations. <br> Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. <br> Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by a one digit, integer scaling problems and harder correspondence problems such as $n$ objects are connected to $m$ objects. | Identify multiples and factors, including finding all factor pairs of $s$ number, and common factor of two numbers. <br> Know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers. <br> Establish whether a number up to 100 is prime ad recall prime numbers up to 19. <br> Multiply umbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for twodigit numbers. <br> Multiply and divide numbers mentally drawing upon known facts. <br> Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret | Ratio and Proportion: <br> Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. <br> Solve problems involving the calculation of percentages [for example, of measures, and such as $15 \%$ of 360 ] and the use of percentages for comparison. <br> Solve problems involving similar shapes where the scale factor is known or can be found. <br> Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. <br> Algebra: <br> Use simple formulae. <br> Generate and describe linear number sequences. <br> Express missing number problems algebraically. |


|  |  |  |  | remainders appropriately for the context. <br> Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000. <br> Recognise and use square numbers and cube numbers, and the notation for squared and cubed. <br> Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. <br> Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. <br> Solve problems involving multiplication and division, including scaling by simple fraction and problems involving simple rates. | Find pairs of numbers that satisfy an equation with two unknowns. <br> Enumerate possibilities of combinations of two variables |
| :---: | :---: | :---: | :---: | :---: | :---: |


| Number: Fractions |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 <br> (including decimals) | Year 5 <br> (including decimals and percentages) | Year 6 <br> (including decimals and percentages) |
| Recognise, find and name a half as one of two equal parts of an object, shape or quantity. <br> Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity. | Recognise, find, name and write fractions $1 / 3,1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity. <br> Write simple fractions for example, $1 / 2$ of $6=3$ and recognise the equivalence of 2/4 and 1/2. | 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 . <br> Recognise, find and write fractions of a discrete set of objects: including unit fractions and non-unit fractions with small denominators. <br> Recognise and show, using diagrams, equivalent fractions with small denominators. <br> Recognise and show, using diagrams, equivalent fractions with small denominators. <br> Add and subtract fractions with the same denominator within one. <br> Compare and order unit fractions, and fractions with the same denominators. <br> Solve problems that involve all of the above. | Recognise and show, using diagrams, families of common equivalent fractions. <br> Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. <br> Solve problems involving increasingly harder fractions to calculate quantities, and fraction to divide quantities, including non-unit fractions where the answer I a whole number. <br> Add and subtract fractions with the same denominator. <br> Recognise and writ decimal equivalents of any number of tenths or hundredths. <br> Recognise and write decimal equivalents to $1 / 4,1 / 2,3 / 4$. <br> 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 | Compare and order fractions whose denominators are all multiples of the same number. <br> Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. <br> 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, $2 / 5+4 / 5=6 / 5=$ $11 / 5]$. <br> Add and subtract fractions with the same denominator and denominators that are multiples of the same number. <br> Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. | Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. <br> Compare and order fractions, including fractions $>1$. <br> Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions. <br> Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1 / 4 \times 1 / 2=1 / 8$ ]. <br> Divide proper fractions by whole numbers [for example, $1 / 3 \div 2=1 / 6]$. <br> Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]. <br> Identify the value of each digit in numbers given to three decimal places and |




| Measurement |  |  |
| :--- | :--- | :--- |
| Describe, Measure, Compare and Solve (All Strands) |  |  |
| Three and <br> Four-Year- <br> Olds | Mathematics | • Make comparisons between objects relating to size, length, weight and capacity. |
| Reception | Mathematics | • Compare length, weight and capacity. |

Telling the Time

Three and Four-Year-
Olds

| Measurement |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Compare, describe and solve practical problems for: <br> * lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] * mass/weight [for example, heavy/light, heavier than, lighter than] <br> * capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] time [for example, quicker, slower, earlier, later] <br> Measure and begin to record the following: lengths and heights mass/weight capacity and volume time (hours, minutes, seconds) <br> Recognise and know the value of different denominations of coins and notes | Choose and use appropriate standard units to estimate and measure length/height in any direction ( $\mathrm{m} / \mathrm{cm}$ ); mass $(\mathrm{kg} / \mathrm{g})$; temperature $\left({ }^{\circ} \mathrm{C}\right)$; capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels. <br> Compare and order lengths, mass, volume/capacity and record the results using >, < and = <br> Recognise and use symbols for pounds ( f ) and pence (p); combine amounts to make a particular value. <br> Find different combinations of coins that equal the same amounts of money. <br> Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. | Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $1 / \mathrm{ml}$ ). <br> Measure the perimeter of simple 2D shapes. <br> Add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts. <br> Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24hour clocks. <br> Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight. <br> Know the number of seconds in a minute and the number of days in each month, year and leap year. <br> Compare durations of events (for example to calculate the | Convert between different units of measure e.g. kilometre to metre, hour to minute. <br> Measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m . <br> Find the area of rectilinear shapes by counting squares. <br> Estimate, compare and calculate different measures, including money in pounds and pence. <br> Read, write and convert time between analogue and digital 12 and 24 hour clocks. <br> Solve problems involving converting from hours to minutes; minutes to seconds; years to months and weeks to days. | Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) <br> Understand and use approximate equivalences between metric units and common imperial units, such as inches, pounds and pints. <br> Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. <br> Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres ( $\mathrm{cm}^{2}$ ) and square metres $\left(\mathrm{m}^{2}\right)$, and estimate the area of irregular shapes. <br> Estimate volume and capacity. | Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate. <br> 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. <br> Convert between miles and kilometres. <br> Recognise that shapes with the same areas can have different perimeters and vice versa. <br> Recognise when it is possible to use formulae for area and volume of shapes. <br> Calculate the area of parallelograms and triangles. <br> Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic |


| Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] <br> Recognise and use language relating to dates, including days of the week, weeks, months and years <br> Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. | Compare and sequence intervals of time. <br> 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. <br> Know the number of minutes in an hour and the number of hours in a day. | time taken by particular events or tasks). |  | Solve problems involving converting between units of time. <br> Use all four operations to solve problems involving measure (length, mass, volume, money) using decimal notation, including scaling. | centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]. |
| :---: | :---: | :---: | :---: | :---: | :---: |


| Properties of Shapes |  |  |
| :---: | :---: | :---: |
| Recognise 2D and 3D Shapes and their Properties |  |  |
| Three and Four-YearOlds | Mathematics | - Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', 'round'. <br> - Select shapes appropriately: flat surfaces for a building, a triangular pattern for a roof, etc. <br> - Combine shapes to make new ones - an arch, a bigger triangle, etc. |
| Reception | Mathematics | - Select, rotate and manipulate shapes in order to develop spatial reasoning skills. |
| Compare and Classify Shapes |  |  |
| Reception | Mathematics | - Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can. |


| Position and Direction |  |  |
| :---: | :---: | :---: |
| Position, Direction and Movement |  |  |
| Three and Four-YearOlds | Mathematics | - Understand position through words alone - for example, "The bag is under the table," - with no pointing. <br> - Describe a familiar route. <br> - Discuss routes and locations, using words like 'in front of' and 'behind'. |
| Reception | Understanding the World | - Draw information from a simple map. |
| Patterns |  |  |
| Three and Four-YearOlds | Mathematics | - Talk about and identify the patterns around them. For example, stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs', etc. <br> - Extend and create ABAB patterns - stick, leaf, stick, leaf. <br> - Notice and correct an error in a repeating pattern. |
| Reception | Mathematics | - Continue, copy and create repeating patterns. |


| Geometry: Properties of Shape |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Recognise and name common 2D and 3D shapes, including: <br> 2D shapes (rectangles, squares, circles and triangles) <br> 3D shapes (cuboids, cubes, spheres, pyramids) | Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. <br> Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. <br> Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]. <br> Compare and sort common 2-D and 3-D shapes and everyday objects. | Draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them. <br> Recognise angles s a property of shape or a description of a turn. <br> 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. <br> Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. | Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. <br> Identify acute and obtuse angles and compare and order angles up to two right angles by size. <br> Identify lines of symmetry in 2-D shapes presented in different orientations. <br> Complete a simple symmetric figure with respect to a specific line of symmetry. | Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. <br> Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. <br> Draw given angles, and measure them in degrees. <br> Identify: <br> * angles at a point and one whole turn (total 360o ) <br> * angles at a point on a straight line and $1 / 2$ a turn (total 180o ) <br> * other multiples of 90 o <br> Use the properties of rectangles to deduce related facts and find missing lengths and angles. <br> Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. | Draw 2-D shapes using given dimensions and angles. <br> Recognise, describe and build simple 3-D shapes, including making nets. <br> Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. <br> Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. <br> 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 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Describe position, direction and movement, including whole, half, quarter and three quarter turns. | Order and arrange combinations of mathematical objects in patterns and sequences. <br> 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 2D grid as coordinates in the first quadrant. <br> Describe movements between positions as translations of a given unit to the left/right and up/down. <br> 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). <br> Draw and translate simple shapes on the coordinate plane, and reflect them in the axis |

## Record, Present and Interpret Data

| Three and <br> Four-Year- <br> Olds | Mathematics | • Experiment with their own symbols and marks, as well as numerals. |
| :--- | :--- | :--- |


| Statistics |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. <br> Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. <br> Ask and answer questions about totalling and comparing categorical data. | Interpret and present data using bar charts, pictograms and tables. <br> Solve on and two step problems (How many more? How many fewer?) using information presented in scaled bar charts, pictograms and tables. | Interpret and present discrete and continuous data using appropriate graphical methods, including bar chats and time graphs. <br> 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. <br> Complete, read and interpret information in tables, including timetables. | Interpret and construct pie charts and line graphs and use these to solve problems. <br> Calculate and interpret the mean as an average |

