Bullion Lane Primary School Progression of Learning Objectives

Nursery
Reception
Year 1
Number: Place Value *Counting matches tables to be taught as well as WRM

- Say one number for each item in order: $1,2,3,4,5$.
- Show 'finger numbers' up to 5 .
- Experiment with their own symbols and marks as well as numerals.
- Fast recognition of up to 3 objects, without having to count them individually
('subitising').
- Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').
- Link numerals and amounts: example, showing the right number of objects to match the numeral, up to 5 .
- Recite numbers past 5.
- Represent, count and subitise numbers to 5: - one, two three; four; five (including forming the numeral).
- Numbers to 10: counting to $6,7,8$; counting 9 and 10 ;
- comparing groups up to 10 .
- Numbers to 20: counting to 20.
- Comparing groups: comparing quantities of identical objects;
- comparing quantities of non-identical objects.

| - Count to |  |
| :--- | ---: | ---: |
| forwards | 100, |
| and |  |$\quad$ Count in steps of 2, 3, forwards and and 5 from 0, and in backwards, beginning tens from any with 0 or 1 , or from any given number;

- count, read and write numbers to 100 in numerals;
- count in multiples of twos and tens;
- identify and represent numbers using objects and pictorial
representations;
- read and write numbers from 1 to 20 in numerals and words.
- Given a number, identify one more and one less number, forward and backward;
- identify, represent and estimate numbers different representations, including the number line;
- 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);
- compare and order numbers from 0 up to

Count from 0 in multiples of $6,4,8$, 50 and 100 ; 100; use <, > and = signs.

- find 10 or 100 more or less than a given number;
- identify, represent and estimate numbers using different representations;
- read and write numbers up to 1000 in numerals and in words;
- recognise the place value of each digit in a three-digit number (hundreds, tens, ones;)
- compare and order numbers up to 1000

Count in multiples of 7, 9, 11, 12, 25 and 1000;

- identify, represent and numbers using different
representations;
- read, and write numbers up to 10,000 in numerals and words; read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value;
- find 1000 more or less than a given number;
- recognise the place value of each digit in a five-digit number ( tens of thousands, thousands, hundreds, tens, and ones);
- order and compare numbers beyond 1000;
- round any number to the nearest 10,100 or 1000;
- solve number and practical problems that
- involve all of the above and with increasingly large positive numbers;
- Understand begin to use flexible partitioning.
- Count forwards backwards in steps of powers of 10 for any given number up to 1 000 000;
- understand Roman numerals to 1,000;
- count forwards and backwards with positive and negative whole numbers, including through zero;
- read, write, order and compare numbers to at least
1000000 and determine the value of each digit;
- interpret negative numbers in context; round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100 000;
- solve number problems and practical problems that involve all of the above.
- read, write, orde and compare numbers up to 10 000000 and determine the value of each digit;
- round any whole number to a required degree of accuracy use negative
numbers in context, and calculate
intervals across zero;
- solve number and practical problems that involve all of the above.

|  | Bullion Lane Primary School Progression of Learning Objectives |  |  |  |  |  |  |
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| Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Number: Addition and Subtraction |  |  |  |  |  |  |  |
| - Solve real world mathematical problems with numbers up to 5 . <br> - Compare quantities using language: 'more than', 'fewer than'. | - Sorting: - sorting into groups <br> - Change within 5: one more; one less <br> - Used vocabulary more - fewer <br> - Numbers to 5: <br> - number bonds to 5 <br> - Addition to 10: combining two groups to find the whole; <br> - number bonds to 10 ten frame; <br> - number bonds to 10 part whole model <br> - Count on and back: adding by counting on; <br> - taking away by counting back. <br> - Engage in extended problem solving to develop critical thinking skills. | - 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 $7=\ldots-9$. | - recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 ; <br> - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot; <br> - recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems; <br> - add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones, a two-digit number and tens, 2 two-digit numbers adding 3 one-digit numbers; <br> - solve problems with addition and subtraction: <br> - using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods. | - estimate $\left.\begin{array}{r}\text { the } \\ \text { answer } \\ \text { to } \\ \text { a }\end{array}\right]$ <br> calculation and use inverse operations to check answers; <br> - add and subtract numbers mentally, including: a threedigit number and ones, a three-digit number and tens, number three-digit hundreds; <br> - add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction; <br> - solve problems, including missing number problems. | - estimate and use inverse operations to check answers to a calculation; <br> - add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate; <br> - solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. | - use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy; <br> - add and subtract whole numbers with 5 digits, including using formal written methods (columnar addition and subtraction); <br> - add and subtract numbers mentally with increasingly large numbers; <br> - solve addition and subtraction multistep problems in contexts, deciding which operations and methods to use and why. | - perform mental calculations, including with mixed operations and large numbers; <br> - use their knowledge of the order of operations to carry out calculations involving the four operations; <br> - solve addition and subtraction multistep problems in context, deciding which operations and methods to use and why. |

## Bullion Lane Primary School

Progression of Learning Objectives

| Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| Number: Multiplication and Division |  |  |  |  |  |  |  |
| - Solve real world mathematical problems with numbers up to 5 . | - Numerical patterns: - doubling; - halving and sharing; - odds and evens; <br> - recognise and make equal groups; <br> - arrange small quantities into pairs and notice that some will have one left over; <br> - build doubles 'twice as many' using real objects and mathematical equipment. <br> - Engage in extended problem solving to develop critical thinking skills. | - 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, 10 and 3 times multiplication tables, including recognising odd and even numbers; <br> - show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot <br> - calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication $(x)$, division ( $\div$ ) and equals (=) signs <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 4 , 6 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 onedigit 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 tables up 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; <br> - multiplying together three numbers; <br> - recognise and use factor pairs and commutativity in mental calculations; <br> - solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit. | - identify multiples and factors, including finding all factor pairs of a number, and common factors 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 and recall prime numbers up to 19 ; <br> - recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) <br> - multiply numbers 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 remainders appropriately for the context; <br> - multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 <br> - solve problems involving multiplication and division including 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 equal sign. | - identify common factors, common multiples and prime numbers; <br> - use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy; <br> - multiply <br> multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication; <br> - 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, 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 with mixed operations and large numbers <br> - solve problems involving addition, subtraction, multiplication and division <br> - use their knowledge of the order of operations to carry out calculations involving the four operations |

# Bullion Lane Primary School 

Progression of Learning Objectives

| Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 |  |  |  |  |  |  |
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|  |  | Fractions, decimals and percentages |  |  |  |  |  |  |  |  |  |

- recognise, find and name a half as 1 of 2
equal parts of an object, shape or quantity
- recognise, find and name a quarter as 1 of 4 equal parts of an object, shape quantity.

| - recognise equal and unequal parts; <br> - find, name and write fractions $\frac{1}{2}$, $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}, \frac{3}{4}$ and of a length, shape, set of objects or quantity <br> - Recognise the $\frac{1}{2}, \frac{2}{4}$ equivalence of ,and write simple fractions for example, 3 is half of 6 ; solve missing number problems; <br> - Recognise unit and non-unit fractions |
| :---: | Fractions, decimals and percentages

- recognise, find and write fractions of a discrete set of objects:
- unit fractions and non-unit fractions with with
- recognise and show, using diagrams, equivalent fractions with small denominators;
- compare and order unit fractions, and fractions with the same
denominators;
- add and subtract fractions with the same denominator within one whole [for example
$\frac{5}{7}+\frac{1}{7}=\frac{6}{7}$
- solve problems that involve all of the above; solve missing number problems.
- count up and down in tenths and hundredths; recognise that tenths and hundredths arise when dividing an object by 10 or 100 (and dividing tenths by 10);
- recognise and show, using diagrams, families of common equivalent fractions;
- add and subtract fractions with the same denominator;
- solve problems involving increasingly harder fractions;
- recognise and write decimal equivalents of any number of tenths or hundreds;
- recognise and write decimal equivalents to $1 / 2$. $1 / 4.3 / 4$;
- convert mixed numbers to improper fractions and vice versa;
- round decimals with 1 decimal place to the nearest whole number;
- compare numbers with the same number of decimal places up to 2 decimal places;
- find the effect of dividing a one- or two-digit number by 10 and 100 , identifying the value of the digits in the answer as ones, tenths and hundredths;
- solve simple measure and money problems involving fractions and decimals to 2 decimal places
- identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths;
- recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements;
- add and subtract fractions with the same denominator, and denominators that are multiples of the same number;
- multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams;
- compare and order fractions whose denominators are all multiples of the same number;
- read and write decimal numbers as fractions for example, $0.71=\frac{71}{100}$;
- recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents;
- round decimals with 2 decimal places to the nearest whole number and to 1 decimal place;
- read, write, order and compare numbers with up to 3 decimal places solve problems involving number up to 3 decimal places;
- recognise the per cent symbol (\%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction;
- solve problems which require knowing percentage and decimal equivalents and those fractions with a denominator of a multiple of 10 or 25 ;
- solve simple measure and money problems involving numbers to two decimal places.
- use common factors to simplify fractions; use common multiples to express fractions in the same denominator;
- add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions;
- multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1 / 4 \times 1 / 2=1 / 8$ )
- divide proper fractions by whole numbers (for example, $1 / 3 \div 2=$ 1/6)
- identify the value of each digit in numbers given to 3 decimal places;
- multiply and divide numbers by 10 , 100 and 1,000 giving answers up to 3 decimal places;
- multiply one-digit numbers with up to 2 decimal places by whole numbers;
- use written division methods in places where the answer has up to 2 decimal places;
- solve problems which require answers to be rounded to specified degrees of accuracy
- associate a fraction with division and calculate decimal fraction equivalents;
- recall and use equivalences between simple fractions, decimals and percentages, including in different contexts;
- solve problems involving the calculation of percentages [for example, of measures and such as $15 \%$ of 360 ] and the use of percentages for comparison;
- solve problems involving unequa sharing and grouping using knowledge of fractions and multiples

| Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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| Measurement |  |  |  |  |  |  |  |
| - make comparisons between objects relating to size, length, weight and capacity. <br> - Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' | - measure: <br> length, height and distance; weight; capacity <br> - Compare items saying which is the heaviest and which is the lightest. <br> - Use more mathematical vocabulary relating to length (longer, shorter), height (taller, shorter) and breadth (wider, narrower). <br> - Measure time in simple ways. <br> - Make comparisons and build upon understanding of full and empty to show full, nearly full and nearly empty. <br> - Time: my day <br> - Order key events in the daily routine. | - compare, describe and solve practical problems for: lengths and heights [for example, long/short, 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]; <br> - measure and begin to record the following: lengths and heights (cm); mass/weight capacity and volume; time (hours, minutes, seconds); <br> - recognise and know the value of different denominations of coins and notes; <br> - 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. | - 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 ( ${ }^{\circ} \mathrm{C}$ ); capacity (litres/ml) to the nearest appropriate unit, <br> - using rulers, scales, thermometers and measuring vessels; <br> - compare and order lengths, heights, mass, volume /capacity and record the results using >, < and =; <br> - recognise and use symbols for pounds ( $£$ ) and pence (p); <br> - 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 <br> - 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; <br> - use the four operations with lengths and height, volume and capacity. | - measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm}$ / mm ); mass (kg/g); volume /capacity ( $1 / \mathrm{ml}$ ); <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 and digital clock, including Roman numerals from I to XII, and 12hour clock; <br> - estimate and read time with increasing accuracy to the nearest minute 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 time taken by particular events or tasks]. | - convert between different units of measure [for example, kilometre to metre; hour to minute; pounds to pence]; <br> - estimate, compare and calculate different measures, including money in pounds and pence read, <br> - 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, weeks to days; <br> - 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 metric measure [for example, km and m ; cm and m ; cm and mm ; g and kg ; I and ml ; <br> - understand and use approximate <br> equivalences between metric units and common imperial units such as inches, pounds and pints; <br> - use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation; <br> - solve problems involving measure [for example, money] <br> - solve problems involving converting between units of time; measure and calculate the perimeter of composite rectilinear shapes in cm and m ; <br> - calculate and compare the area of rectangles (including squares), 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 [for example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes)] and capacity [for example, using water]. | - solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate; <br> - 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 3 decimal places; <br> - convert between miles and kilometres; 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; <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 centimetres ( $\mathrm{cm}^{3}$ ) and cubic metres ( $\mathrm{m}^{3}$ ), and extending to other units [for example, $\mathrm{mm}^{3}$ and $\mathrm{km}^{3}$ ]; use and convert imperial units of measure. |

## Bullion Lane Primary School

 Progression of Learning Objectives
## Geometry - Properties of Shapes

- 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';
- combine shapes to make new ones an arch, a bigger triangle etc. Select shapes
appropriately: flat surfaces building, triangular prism for a roof etc; describe a familiar route.
- Discuss routes and locations, using words like 'in front of' and 'behind'.
- Understand position through words alone.
- Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper.
- Use informal language
- like 'pointy', 'spotty', 'blobs' etc.
- Extend and create ABAB patterns - stick, leaf, stick, leaf.
- Notice and correct an error in a repeating pattern.
- Shape and space: Spatial awareness; -3-D shapes; 2-D shapes;
- making simple patterns
- exploring more complex Patterns;
- recognise and name 2-D shapes
- Name 3D shapes.
- Explore similarities and differences between 3D shapes.
- Sort 3-D shapes accordingly.
- Construct own 3D shapes in different ways.
- Develop
understanding of positional language.
- Use positional language to describe where objects are in relation to one another.
- Select and rotate shapes to fill a given space.
- Copy, continue and create a widening range of repeating patterns symmetrical constructions.
- Recognise, name and sort common 2-D shapes [for example, rectangles (including squares, circles triangles);
recognise and name common 3-D shapes for example cuboids (including cubes, pyramids and spheres); describe position, direction and movement,
including whole, half, quarter and three-quarter turns.

NON-STATUTORY:

- Use and understand ordinal numbers $1^{\text {st }}$ $2^{\text {nd }}, 3^{\text {rd }}$.
draw 2-D shapes modelling materials;
the properties of 2-D shapes, including the number of sides, and line of symmetry in a vertical line;
- identify 2-D shapes on the surface of 3-D shapes, [e.g., a circle on a cylinder and a triangle on a pyramid];
- compare and sort common 2-D shapes and everyday objects
- identify and describe the properties of 3-D shapes, including number of edges, vertices and faces;
- compare and sort common 3-D shapes and everyday objects;
- order and arrange combinations of mathematical objects in patterns and sequences;
- use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing
between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise anticlockwise).
- 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;
- identify acute and obtuse angles and compare and order angles up to 2 right angles by size;
- complete a simple symmetric figure with respect to a specific line of symmetry;
- describe positions on a 2-D grid as coordinates in the first quadrant;
- describe movements between positions as translations of a given unit to the left/right and up/down;
- plot specified points and draw sides to complete a given polygon.
know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles;
- draw given angles, and measure them in degrees ( ${ }^{\circ}$ );
- identify: angles at a point and 1 whole turn (total $360^{\circ}$ )
- angles at a point on a straight lie and half a turn (total $180^{\circ}$ )
- other multiples of $90^{\circ}$
- 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;
- read and plot coordinates.
- 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 3D shapes, including making nets;
- find unknown angles in any triangles, quadrilaterals, and regular polygons;
- recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles;
- describe positions on the full coordinate grid (all 4 quadrants);
- draw and translate simple shapes on the coordinate plane, and reflect them in the axes;
- understanding nets of 3d shapes.

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| Nursery | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Statistics |  |  |  |  |  |  |  |
|  |  |  | - interpret and construct simple pictograms, tally charts, block diagrams and 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 totaling and comparing categorical data. | - interpret and present data using bar charts, pictograms and tables; <br> - solve one-step and two-step questions [for example 'How many more?' and 'How many fewer?']; <br> - using information presented in scaled bar charts and pictograms and tables. | - interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs; <br> - solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs | - complete, read and interpret information in tables, including timetables <br> - solve comparison, sum and difference problems using information presented in a line graph and be able to draw them. | - interpret and construct pie charts and line graphs and use these to solve problems; <br> - calculate and interpret the mean as an average. |

