| Nursery |  |  |  |  |  |  |
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|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Learning Project Focus | How many colours are in a rainbow? | Is it shiny? | How does that building stay up? | Are eggs alive? | How many pebbles on the beach? | How high can you jump? |
| Number and Place Value | I can say number names in rhyme and play <br> I can say one number for each item in order: 1,2,3,4,5 <br> I can count objects, actions, sounds |  | I can say number names in rhyme and play <br> I can recite numbers past 5 <br> I can show 'finger numbers' up to 5 <br> I can match numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5 <br> I can compare quantities using language: 'more than', 'fewer than'. |  | I can say number names in rhyme and play <br> I can recite numbers past 5 <br> I can make my own symbols and marks as well as numerals <br> I can recognise up to 3 objects, without having to count them individually ('subitising') <br> I can solve real world mathematical problems with numbers up to 5 <br> I know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle') |  |
| Measures | Length and height <br> I can make comparis relating to size, length | etween objects | Length and height <br> I can make companis objects relating to s <br> Weight <br> I can make comparis relating to weight. | between two height <br> between objects | Capacity <br> I can make comparis relating to capacity. | s between objects |


| Geometry Shape |  | I can talk about and explore 2D and 3Dshapes (for example, circles, rectangles, triangles) using informal and mathematical language: 'sides', 'corners'; ‘straight', 'flat', 'round'. <br> I can select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc. | I can combine shapes to make new ones an arch, a bigger triangle, etc. |
| :---: | :---: | :---: | :---: |
| Pattern | I can 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> I can describe a sequence of events, real or fictional, using words, such as 'first', 'then...' <br> (E.g. sequencing daily routines: morning, afternoon, earlier, later, yesterday, tomorrow, the day before, the day after) | I can extend and create ABAB patterns stick, leaf, stick, leaf. <br> I can notice and correct an error in a repeating pattern. <br> I can describe a sequence of events, real or fictional, using words, such as 'first', 'then...' <br> (E,g. day, night, events in stories, sequence stages of animal growth) |  |
| Position and direction | I can understand position through words alone - for example, "The bag is under the table," - with no pointing. |  | I can describe a familiar route. <br> I can discuss routes and locations, using words like 'in front of' and 'behind'. |


| Reception |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Learning Project | All about me and my friends | Autumn | Will you read me a story? | Do cows drink milk? | Are we there yet? | Why do ladybirds have spots? |
| Subject focus | Getting to know you Match, sort and compare Talk about measure and patterns It's me 1,2,3 <br> Circles and triangles 1,2,3,4,5 <br> Shapes with 4 sides |  | Alive in 5 Mass and capacity Growing 6,7,8 Length, height and time Building 9 and 10 Explore 3D shapes |  | To 20 and beyond How many now? <br> Manipulate, compose and decompose Sharing and grouping Visualise, build and map Make connections |  |

Number and
Place Value

I can match objects that are identical,
finding pairs (Criteria examples- colour, size, pattern, shape, number shapes)

I can sort objects into sets based on colour, size or shape

## I know numerals 1-5

I know that the final number counted is the quantity of the set

I can represent, compare and understand the composition of numbers 1-5 by:

I can match numerals to quantities
I can count by touching objects and recognise that the final number is the quantity of the set

I can subitise (automatically recognise without counting) quantities to 5

I can use own mark making to represent numbers and quantities to 5

I am beginning to understand as we count on each number is one more and as we count back each number is one less than the previous number

I can compare sets of objects using language; more and fewer

I can order amounts/sets of objects by the size of the set

## I know that zero 0 represents 'nothing there' <br> I know numerals 0-10 <br> I can count forwards and backwards to 10

I can represent, compare and understand the composition of numbers 6-10 by:

I can match numerals to quantities
I can count by touching objects and recognise that the final number is the quantity of the set

I can use own mark making to represent numbers and quantities to 10

I understand as we count on each number is one more and as we count back each number is one less than the previous number

I can compare sets of objects using language; more than and fewer, same as etc

I can order amounts/sets of objects by the size of the set

I can arrange sets of objects up to 10 into smaller groups to see how numbers are made up of smaller numbers

I can explore and represent patterns within numbers up to 10 , including evens and odds by making pairs

I can verbally count beyond 20
I am beginning to identify numbers to 20 and beyond

I can sequence numbers in order
I can count on and back including continuing the count from any given number

## I know the number that comes before or after

 a given numberI have an understanding of odd and even through sharing and making pairs

I can use tens frames to see that larger numbers are composed of 10 and a part of the next ten (12 is one full ten and 2)

| Addition and Subtraction | I know the different compositions of numbers to 2 and 3 (E.g. 3 is 1 and 2 or 1 and 1 and 1 etc) <br> I know the number that is one more and one less than a number to 5 <br> I know number bonds to 2 and 3 | I can recognise quantities up to 5 without counting (subitise) <br> I can begin to combine 2 groups to find out how many altogether <br> I am becoming familiar with number bonds to 10 through practical exploration <br> I know number bonds to 4 and 5 | I can add within 10 using real objects and number stories first, then and now structure <br> I can subtract within 10 using real objects and number stories first, then and now structure <br> I am becoming familiar with number bonds to 10 through practical exploration, including doubles |
| :---: | :---: | :---: | :---: |
| Multiplication and Division |  |  | I can share and group objects equally <br> I know when items have been shared equally or not <br> I have an understanding of odd and even through practically sharing and making pairs |
| Fractions |  | I am beginning to understanding the term half-linked to capacity | I am beginning to understanding half-linked to sharing |
| Measures | Length, height, mass and capacity <br> I can compare size, mass and capacitycompare and order objects according to size <br> Time <br> I am beginning to describe a sequence of events, real or fictional, using words, such as 'first', 'then...' <br> I am beginning to order key events in a day using vocabulary: day, night, morning, afternoon, before, after, today, tomorrow, now, next, later | Mass <br> I can compare mass using the language; heavy, heavier than, heaviest, light, lighter than and lightest <br> Capacity <br> I can compare capacity using the language; full, empty, half full, nearly full and nearly empty <br> Length and height <br> I can compare length and height using the language; tall, long, short, taller, shorter, longer, shorter, wide, narrow, wider, narrower Time <br> I can order and sequence important times in the day using language such as; day, night, |  |


|  |  | morning, afternoon, before, after, today, tomorrow, now, next, later <br> I can sing songs to sequence the days of the week |  |
| :---: | :---: | :---: | :---: |
| Geometry | 2D shape- <br> I know the names of 2D shapes: circles, triangles, squares and rectangles <br> I am beginning to recognise the properties of 2D shapes and use language such as; curved and straight sides, corners, longer than, shorter than, equal (squares are classed as special rectangles with 4 equal sides) | 3D shape <br> I am beginning to learn the names of some 3D shapes; cylinder, cuboid, cube, sphere, cone and pyramid <br> I can talk about the similarities and differences between 3D shapes using everyday language such as; curved, round, straight, flat and be introduced to properties such as; face and edge <br> I can sort 3D shapes |  |
| Pattern | I can copy, continue and create simple repeating patterns <br> (ABAB) | I can copy, continue and create repeating patterns introducing more complex patterns (ABB, AAB, AABB etc) | I can copy, continue and create repeating patterns introducing more complex patterns (ABBC) |
| Spatial awareness | I can use positional language such as; over, around, under, through |  | I am beginning to recognise shapes with different orientation <br> I am beginning to copy 2D pictures and simple 3D models <br> I am beginning to complete simple jigsaw and shape puzzles, rotating shapes to fit <br> I can use positional language such as next to, above, below, between describe shapes and objects in relation to one another <br> I am learning to recognise that a shape can have other shapes within it. For example; I can see that when two triangles are put together they make a square. |


| Year One |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Autumn 1 Autumn 2 | Spring 1 | Summer 1 Summer 2 |
| Learning Project | Our School/My Family History | Our Local Area/The Greatest Explorers | Our Country/Great Inventions |
| Subject Focus | Place value (within 10) <br> Addition and subtraction (within 10) Shape | Place value (within 20) <br> Addition and subtraction (within 20) <br> Place value (within 50) <br> Length and height <br> Mass and volume | Multiplication and division Fractions <br> Position and direction Place value (within 100) Money Time |
| Number and Place Value | I can count to 20, forwards and backwards, beginning with 0 or 1 , or from any given number <br> I know how to count, read and write numbers to 10 in numerals and words. <br> I can identify and represent numbers using: objects and pictorial representations, including a number line <br> I can use the language of: equal to, more than, less than (fewer), most, least to compare <br> I know 1 more or 1 less than a given number up to 10 | I can count to and across 20 initially and then 50, forwards and backwards, beginning with 0 or 1 , or from any given number <br> I know that one ten is equal to ten ones <br> I know that numbers 11-19 have one ten and some more <br> I know how to count, read and write numbers to 20 and then 50 in numerals <br> I can identify and represent numbers using: objects and pictorial representations, including a number line <br> I am beginning to represent the tens and ones within a number to 50 <br> I know 1 more or 1 less than a given number up to 50 <br> I can count in multiples of $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s . | I can count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number <br> I know how to count, read and write numbers to 100 in numerals <br> I can identify and represent numbers using: objects and pictorial representations, including a number line <br> I am beginning to represent the tens and ones within a number to 100 <br> I know 1 more or 1 less than a given number up to 100 <br> I can count in multiples of $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s . |
| Addition and Subtraction | I can read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs <br> I can add and subtract within 10 <br> I can add and subtract by counting on and back | I can read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs <br> I can add and subtract one-digit and two-digit numbers within 20 , including zero, using concrete resources and pictorial methods | I know addition and subtraction facts within 10 and some within 20 |


|  | I can partition a number into two parts, exploring all the number bonds systematically <br> I can represent and use number bonds and related subtraction facts within 10 <br> I can solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems. <br> I know some addition and subtraction facts within 10. | I can add and subtract by counting on and back <br> I can represent and use number bonds and related subtraction facts within 20 <br> I am beginning to use tens frames to help to see how adding or subtracting to 10 can help calculate <br> I can partition a number into two parts, exploring all the number bonds systematically <br> I can solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems. <br> I know addition and subtraction facts within 10 |  |
| :---: | :---: | :---: | :---: |
| Multiplication and Division |  |  | I can count in multiples of $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s . <br> I can make equal groups by sharing or grouping <br> I can add equal groups <br> I can solve one-step problems involving multiplication and division by calculating the answer using concrete objects, pictorial representations and arrays with the support of my teacher <br> I can double numbers to 20 <br> I know doubles to 10 |



|  |  | I can solve practical problems for length and height, weight and mass and capacity and volume |  |
| :---: | :---: | :---: | :---: |
| Geometry Shape and position and direction | Shape <br> I can recognise and know the names of common 2D shapes: circle, triangle, rectangle (including square) <br> I can recognise and name common 3D shapes: cuboids (including cubes), pyramids and spheres |  | Position and direction <br> I can describe position, direction and movement, including whole, half, quarter and three-quarter turns. |


| Year Two |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Autumn 1 Autumn 2 | Spring $1 \times$ Spring 2 | Summer 1 Summer 2 |
| Learning Project | Magical Mapping/Bonfire Night and The Great Fire of London | Our Wonderful World/Amazing Activists | Sensational Safari/Holidays |
| Subject Focus | Place value <br> Addition and subtraction Shape | Money <br> Multiplication and division Length and height Fractions | Time <br> Mass, capacity and temperature <br> Statistics <br> Position and direction |
| Number and Place Value | I can count in steps of 2, 3, and 5 from 0 , and in tens from any number, forward and backward <br> I can read and write numbers to at least 100 in numerals and in words <br> I can identify, represent and estimate numbers using different representations, including the number line <br> I know the place value of each digit in two digit number (tens and ones) <br> I can compare and order numbers from 0 up to 100; use <, > and = signs <br> I can use place value and number facts to solve problems |  |  |
| Addition and Subtraction | I can recall and use addition and subtraction facts to 10 and then 20 fluently and derive and use related facts up to 100 <br> I can show that addition can be done in any order (commutative) and subtraction of one number from another cannot. <br> I can recognise and use the inverse relationship between addition and subtraction and use this to check | I can recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100 <br> I can solve missing number problems | I can recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100 |


|  | calculations and solve missing number problems <br> I can add and subtract numbers using concrete objects, pictorial representations and mentally, including: <br> two-digit numbers and ones two-digit numbers and tens two two-digit numbers adding three one-digit numbers <br> I can solve problems with addition and subtraction <br> I can apply increasing knowledge of mental and written methods |  |  |
| :---: | :---: | :---: | :---: |
| Multiplication and Division |  | I can count in 2's, 5's and 10's <br> I can recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers <br> I can calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication $(\times)$, division ( $\div$ ) and equals (=) signs <br> I can show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot <br> I can solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in context | I can recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers |


|  | I know odd and even numbers |  |
| :---: | :---: | :---: |
| Fractions | I can 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> I can recognise the equivalence of $2 / 4$ and $1 / 2$. <br> I can write simple fractions for example, $1 / 2$ of $6=3$. |  |
| Measures | Money <br> I know and use symbols for pounds (£) and pence (p) <br> I can combine amounts to make a particular value. <br> I can find different combinations of coins that equal the same amounts of money. <br> I can solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. <br> I can count in 2's, 5's and 10's <br> Length and height <br> I can choose and use appropriate standard units to estimate and measure length/height ( $\mathrm{m} / \mathrm{cm}$ ); to the nearest appropriate unit, using rulers. <br> I can compare and order lengths and heights and record the results using >, < and = | Time <br> I can compare and sequence intervals of time. <br> I can 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> I know the number of minutes in an hour and the number of hours in a day. <br> Mass/weight <br> I can choose and use appropriate standard units to estimate and measure mass (kg/g); to the nearest appropriate unit, using scales. <br> I can compare and order mass and record the results using $>,<$ and $=$. <br> Capacity and volume <br> I can choose and use appropriate standard units to estimate and measure capacity (litres $/ \mathrm{ml}$ ) to the nearest appropriate unit, using measuring vessels. |


|  |  | I can compare and order volume/capacity and record the results using >, < and =. <br> Temperature <br> I can choose and use appropriate standard units to estimate and measure temperature $\left({ }^{\circ} \mathrm{C}\right)$ to the nearest appropriate unit, using thermometers |
| :---: | :---: | :---: |
| Geometry | Shape <br> 2D <br> I can identify and describe the properties of 2D shapes, including the number of sides, vertices and line symmetry in a vertical line <br> I can identify 2D shapes on the surface of 3D shapes <br> I can compare and sort common 2D shapes and everyday objects. <br> 3D <br> I can identify and describe the properties of 3D shapes, including the number of edges, vertices and faces <br> I can compare and sort common 2D shapes and everyday objects. | Position and Direction <br> I can order and arrange combinations of mathematical objects in patterns and sequences <br> I can 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 threequarter turns (clockwise and anticlockwise) |
| Statistics |  | I can count in 2's, 5's and 10's <br> I can interpret and construct simple pictograms, tally charts, block diagrams and simple tables. <br> I can ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. <br> I can ask and answer questions about totalling and comparing categorical data. |

