# Langley Mill C of E (Controlled) Infant School and Nursery <br> Mathematics - End of Year 1 Objectives 



## Numbers and Place Value:

- I can count to 100 forwards and backwards.
- I can count from 0 or 1 or from any given number.
- I can count, read and write numbers to 100 in numerals.
- I can count in multiples of 2, 5 and 10.
- I can identify one more and one less than a given number.
- I can identify and represent numbers using objects \& pictures including the number line.
- I can use number vocabulary such as equal to, more than, less than (fewer), most, least.
- I can read and write numbers from 1 to 20 in numerals and words.

Addition and subtraction:

- I can read, write \& interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.
- I can solve problems involving addition, subtraction and equals using practical equipment to help me.
- I know and can use my number bonds and related subtraction facts within 20.
- I can add and subtract one-digit and two-digit numbers to 20 , including 0.
- I can solve missing number problems such as $7=[$ ]-9.


## Multiplication and Division:

- I can solve one-step problems involving multiplication and division using objects, pictures and arrays, with the support of the teacher.


## Fractions:

- I can recognise, find and name a half as one of two equal parts of an object, shape or quantity.
- I can recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.


## Measures:

- I can compare, describe and solve problems for lengths and heights using words such as long, short, longer, shorter, tall, taller, short, shorter, double, half.
- I can compare, describe and solve problems for mass or weight using words such as heavy, light, heavier than, lighter than.
- I can compare, describe and solve problems for capacity/volume using words such as full, empty, more than, less than, half, half full, quarter.
- I can measure and begin to record the length, height, mass/weight and capacity.

Time:

- I can compare, describe and solve problems for time using words such as quicker, slower, earlier, later.
- I can tell the time to the hour.
- I can tell the time to half past the hour.
- I can draw hands on a clock face to show o'clock and half past times.
- I can measure and being to record time.
- I can sequence events in chronological order using words such as before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening.
- I can use language relating to dates.
- I can say the days of the week.
- I can say the months of the year.


## Money:

- I can recognise and know the value of UK coins and notes.
- I can order coins from smallest to largest value.
- I can solve simple addition and subtraction problems involving money.

Shape:

- I can recognise and name common 2-D shapes including e.g. rectangles, squares, circles and triangles.
- I can recognise and name common 3-D shapes e.g. cuboids, pyramids and spheres.

Position and direction:

- I can describe position, direction and movement, including whole, half, quarter and three-quarter turns.


## Langley Mill C of E (Controlled) Infant School and Nursery Mathematics - End of Year 2 Objectives



## Numbers and Place Value:

- I can count in steps of 2,3 , and 5 from 0 .
- I can count in 10 s from any number forwards and backwards.
- I can recognise the place value of each digit in a two-digit number (tens, ones).
- I can identify and represent numbers in different ways.
- I can estimate a number based on its position e.g. an arrow on a 0 to 10 number line.
- I can read and write numbers to at least 100 in numerals and words.
- I can compare and order numbers from 0 up to 100.
- I can round any two-digit number to the nearest 10.
- I can use the less than, more than and equals symbols in number sentences (<, > and =).
- I can use place value and number facts to solve problems.


## Addition and subtraction:

- I can add and subtract numbers using practical equipment to help me and mentally:

```
TU + U
    TU + multiple of 10
    TU + TU
    U+U+U
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- I can solve problems with addition and subtraction: using practical equipment to help me. with numbers, quantities and measures.
by using increasing mental calculation strategies and written methods.
- I can recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
- I can show that addition can be done in any order (commutative).
- I can show that subtraction cannot be done in any order.
- I can recognise and use the inverse relationship between addition and subtraction.
- I can use and apply the inverse to check calculations.
- I can use and apply the inverse to solve missing number problems.


## Multiplication and Division:

- I can recall and use multiplication facts for 2,5 and 10 times tables.
- I can recall and use division facts for the 2,5 and 10 times tables.
- I can recognise odd and even numbers.
- I can use the multiplication, division and equals symbols to calculate mathematical problems (x, $\div$ and $=$ ).
- I can show that multiplication of two numbers can be done in any order (commutative).
- I can show that division of one number by another cannot be done in any order.
- I can solve problems involving multiplication and division within a variety of contexts using:
practical equipment.
Arrays.
repeated addition.
mental methods.
multiplication and division facts that I know.


## Fractions:

- I can recognise, name and write the fractions $1 / 3,1 / 4,2 / 4$, and $3 / 4$.
- I can find $1 / 3,1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity.
- I can write simple fractions, e.g. $1 / 2$ of $6+3$.
- I can recognise simple equivalent fractions e.g. $2 / 4$ or 6 is the same as half.


## Measures:

- I can choose and use the standard units to estimate and measure:
- length/height $(\mathrm{m} / \mathrm{cm})$.
- mass (kg/g).
- temperature $\left({ }^{\circ} \mathrm{C}\right)$.
- capacity (litres/ml).
- I can choose and use the appropriate equipment to measure:
- length/height (rulers).
- mass (scales).
- temperature (thermometers).
- capacity (measuring vessels).
- I know the relationship between units of measure for length, mass and capacity e.g. $100 \mathrm{~cm}=1 \mathrm{~m}$, $1000 \mathrm{~g}=\mathrm{I} \mathrm{Kg}, 1000 \mathrm{ml}=1 \mathrm{~L}$.
- I can use my knowledge of the relationship between units of measure to compare and order lengths, mass and capacity and record the results using >, < and =.
- I can compare and describe mass or weight using words such as heavy, light, heavier than, lighter than.
- I can compare and describe capacity using words such as full, empty, more than, less than, quarter.
- I can measure and begin to record the length, height, mass and capacity.


## Time:

- I can understand, compare and sequence intervals of time such as seconds, minutes, hours, days, weeks, months, years.
- I know the number of minutes in an hour and the number of hours in a day.
- I can tell and write quarter past and quarter to times.
- I can draw the quarter past and to times on a clock face.
- I can tell and write the time to 5 minutes.
- I can draw the time to 5 minutes on a clock face.


## Money:

- I can recognise and use symbols for pounds ( $£$ ) and pence (p).
- I can combine coins to make a given value.
- I can find different combinations of coins that equal the same amounts of money.
- I can solve addition and subtraction money problems in the same unit of money, including giving change.


## Shape:

- I can identify and describe the properties of 2-D shapes including the number of sides.
- I can identify vertical lines of symmetry.
- I can identify and describe the properties of 3-D shapes including the number of edges, vertices and faces.
- I can identify 3-D shape faces and 2-D shapes e.g. a circle on a cylinder and a triangle on a pyramid.
- I can compare and sort common 2-D and 3-D shapes and everyday objects according to their properties.


## Position and direction:

- I can order and arrange combinations of mathematical objects in patterns and sequences, including those in different orientations.
- I can use mathematical language to describe position.
- I can use mathematical vocabulary to describe direction and movement such as quarter, half and three-quarter turns, clockwise, anti-clockwise, straight, left and right.
- I can recognise quarter turns as right angles.


## Statistics:

- I can interpret and construct:
- pictograms.
tally charts.
block diagrams.
- simple tables.
- I can ask and answer simple questions involving:
counting the number of objects in each category.
- totaling given categories.
- comparing given categories

Langley Mill C of E (Controlled) Infant School and Nursery Mathematics End of Reception Objectives


## ELG 11 Numbers

- I can count reliably with numbers from 1-20.
- I can place the numbers 1-20 in the correct order.
- I can say which number is one more or one less than a given number (to 20).
- I can count on or back to find the answer, using quantities and objects.
- I can solve problems, including doubling, halving and sharing.
- Using objects to help, I can add 2 single-digit numbers and count on to find the answer
- Using objects to help, I can subtract 2 single-digit numbers and count back to find the answer.


## ELG 12 Shape, space and measures

- I can use everyday words to talk about capacity.
- I can use everyday words to talk about size.
- I can use everyday words to talk about weight.
- I can use everyday words to talk about distance.
- I can use everyday words to talk about time.
- I can use everyday words to talk about money.
- I can compare objects and quantities and use them to solve problems.
- I notice and describe everyday shapes and objects using mathematical words.
- I can use everyday words to talk about position.
- I can recognise, create and describe patterns.


