Fairfield Road Primary School

Whole-school Mathematics Fluency Skills Progression

Strand	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Number and Place Value	• I can recite numbers to 10. • I can count objects reliably to 5. • I can match objects and numerals to 5. • I can subitise to 3. • I can compare groups of objects saying which has more. • I can compare groups of objects saying which has less.	• I can recite numbers to 50. • I can recall one more than any number to 10. • I can recall one less than any number to 10. • I can subitise to 5. • I can recognise numerals to 10.	• I can count forwards to 100 from any given number • I can count backwards from 100 from any given number • I can recall one more and less from any number from 0 – 20. • I can count in twos to 100. • I can count in fives to 100. • I can count in tens to 100.	• I can find 10 more or less than any number up to 100.	• I can determine the value of each digit in a three-digit number (100s, 10s and 1s). • I can find 100 more or less than a given number.	• I can determine the value of each digit in a four-digit number (1000s, 100s, 10s and 1s). • I can find 1000 more or less than a given number. • I can round any number to the nearest 10, 100 or 1000.	• I can determine the value of each digit in a six-digit number (100,000s, 10,000s, 1,000s, 100s, 10s, and 1s). • I can count forwards and backwards in steps of powers of 10. • I can round any number to the nearest 10, 100, 1000, 10000 or 100000	• I can determine the value of any digit within a number (including to 3dp). • I can round any number to any degree of accuracy (including decimals). •
Addition and Subtraction		• I can recall number bonds to 5. • I can recall subtraction bonds to 5.	• I can recall number bonds to 20.	• I can add and subtract numbers to 20. • I know by heart all bonds of multiples of 10 up to 100.	• I can recall number bonds to 100.			• I know the order that operations must be done (BODMAS)
Multiplication and Division		• I can double numbers from 1 to 5. • I can recall odd numbers to 10. • I can recall even numbers to 10.	• I can recall odd and even numbers to 20.	• I know by heart all multiplication and division facts for the 2, 5 and 10 times table. • I can identify all odd and even	• I know by heart all multiplication and division facts for the 3, 4 and 8 times table.	• I know by heart all multiplication and division facts for the 6, 7, 9, 11 and 12 times table.	• I can explain and identify what a multiple, factor and factor pair is. • I can explain what a prime number, prime factor,	• I can define the terms common factor and common multiple. • I know the order that operations must be done (BODMAS)

				numbers up to 100.			and composite (non-prime) number is and recall prime numbers up to 19. • I can explain what a square and cube number is and recall by heart the square numbers up to 12^2 and the cube numbers up to 5^3.	
FDP			• I can recognise half of a shape • I can recognise a quarter of a shape.	• I can recognise a half, a third, a quarter, two quarters and three-quarters of a shape. • I can name and write a half, a third, a quarter, two quarters and three-quarters of a shape.	• I can find unit fractions of a number.	• I can recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ and any number of tenths or hundredths. • I can 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.	• I can round decimals to the nearest whole number or 1 d.p. • I can multiply and divide any number (including decimals) by 10, 100 and 1,000. • I can recall some key equivalences between percentages, decimals and fractions (including 1/2, 1/4, 1/5, 2/5, 4/5 and fractions with a denominator of a multiple of 10 or 25). • I can read and write decimal numbers as fractions (for example, 0.71 = 71/100).	• I can find percentages of a number without using a calculator. • I know equivalences between fraction, decimals and percentages.

Geometry – Properties of Shapes	• I can recognise and name the common 2-D shapes: circle, triangle, square and rectangle.	• I can name the common 3-D shapes: cube, cuboid and sphere.	• I can name common 2-D shapes: squares, rectangles, circles and triangles. • I can name common 3-D shapes: cube, cuboid, pyramids, sphere and hemisphere.	• I can name a variety of 2-D and 3-D shapes (V) • 2-D: squares, rectangles, circles, triangles, pentagon, hexagon and octagon. • 3-D: cubes, cuboids, spheres, pyramids, prisms, cones and cylinders.	• I can recall the properties of 2D shapes using accurate language e.g. sides and vertices. • I can recall the properties of 3D shapes using accurate language e.g. faces, edges and vertices.	• I can explain what a quadrilateral is and identify the most common ones: square, rectangle, kite, rhombus, parallelogram and trapezium. (V) • I can identify the features of different types of triangles: equilateral, isosceles, scalene and right-angled. (V)	• I know by heart how many degrees in a right angle, straight line and full turn, and apply my knowledge to questions.	• I can name and identify the parts of a circle (including radius, diameter and circumference). • I know how to calculate the area of some 2-D shapes (squares, rectangles, triangles and parallelograms) and then volume of cubes and cuboids. • I can recall angle facts: angles that meet at a point, are on a straight line, and are vertically opposite.
Measurement			• I can name all of the days of the week • I can name all of the months of the year.		• I can recall various time facts: the number of seconds in a minute; minutes in an hour; hours in a day; days in a week; months in a year; and the number of days in a year and leap year. (V)	• I can recall various time facts: the number of days in each month; weeks in a year; and years in a decade and century. (V)	• I can recall various measurement facts: millimetres in a centimetre; centimetres in a metre; metres in a kilometre; grams in a kilogram; millilitres in a litre. (V)	• I can convert between standard units of measurement (including length, mass and volume).
Statistics								• I can solve simple algebraic expressions

Algebra								• I know how to calculate the mean within a data set.