Preston CofE Primary School

Maths LTP

	Autumn	Spring	Summer
EYFS	• Use own marks to represent numbers during play. • Use fingers to represent numbers. • Represent numbers in different ways. • Recognise the numbers to 5. • Match a quantity to the numbers to 5. • Sequence numbers to 5. • Subitise to 5. • Count by rote to 10. • Count objects, actions, and sounds 1:1. • Understand that the last number when counting is the total. • Use the correct language to compare weight, height, capacity, and length. • Compare size, mass, and capacity. • Understand 1 more forward and 1 less backwards. • Complete simple puzzles. • Name 2D shapes (circle, triangle, square, rectangle). • Match shapes to patterns. • Explore simple patterns (E.g; odd one out). • Match colour, size, and shape. • Name times of day, and class routines using positional language. • Compare amounts.	• Use fingers to represent numbers in different ways. • Recognise the numbers to 10. • Match a quantity to the numbers to 10. • Sequence numbers to 10. • Count by rote to 20. • Count out the required number from a larger group. • Combine 2 groups of objects. • Arrange groups of objects into smaller groups. • Use the correct language to compare weight, height, capacity, and length. • Recognise numbers 1 smaller. • Find one more and one less to 10. • Understand that 0 is nothing. • Address misconceptions. • Name and describe 2D shapes. • Build, and problem solve with shapes. • Talk about time: now, before, later, next, soon. • Organise, and sequence events based on time. • Distribute quantities equally. • Complete AB AB, AABB & ABC ABC patterns. • Compare amount within a range of situations. • Understand a pair is 2. • Arrange objects into pairs, realising some will have an odd one left.	• Sequence numbers to 20. • Count by rote backwards. • Name 3D shapes. • Combine separate shapes to make new ones. • Complete AABB and ABC ABC patterns. • Fix mistakes in patterns. • Recite beyond 20 and recognise the pattern of the number system (tens and units). • Compare quantities up to 10. • Complete addition and subtraction using objects. • Learn some key number patterns including, odds and evens, doubles facts, number bonds and sharing.
Year 1	• Number and place value (to 100) • Addition and subtraction (number bonds and facts to 20)	• Addition and subtraction	• Number (number bonds and facts) • Measurement (capacity and volume) • Fractions (equal parts)

	• Multiplication and division (problems) • Measurement – lengths and measures • Properties of Shape (2D)	• Measurement – money, time sequences, time to nearest hour/half hour & position and direction • Properties of shapes (3D) • Number and place value (steps of 2 3 & 5, one more one less) • Multiplication and division (arrays and repeated addition)	• Addition and subtraction (inverse relationships and commutativity)
Year 2	• Number and place value (steps of , 3, 5 and 0 in 10s) • Addition and subtraction (addition and subtraction facts to 20) • Measurement (money, problem solving with money, estimate and measure lengths and sequence intervals of time • Multiplication and division (2, 5 & 10 inc. odd and even numbers, arrays and repeated addition)	• Number and place value • Multiplication and division (related facts to the 2, 5 & 10) • Statistics (bar charts, pictograms, block charts and tables) • Properties of shape (2D/3D shapes) • Fractions (fractions of shapes inc. equivalence of half and 2 quarters) • Addition and subtraction (commutativity and inverse inc. missing numbers)	• Geometry – position and direction inc. clockwise and anticlockwise • Measurement – estimate and capacity inc. temperature) • Addition and subtraction • Multiplication and division • Measurements – inc time to the nearest 5 mins, intervals of time, mins in hours and days
Year 3	• Number and place value – numbers up to 1000 • multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number • Addition and subtraction – column method, up to 3 digits and using inverse. • Multiplication and division – 3, 4 and 8 times tables, formal written methods, 2 digit by 1 digit numbers, missing number problems. • Word problems • Fractions (of shapes and amounts, count up and down in tenths, fractions as numbers: unit fractions and non-unit fractions with small denominators, equivalent fractions, add and subtract fractions with the same denominator within one whole, compare and order unit fractions, and fractions with the same denominators	• Number and place value – numbers up to 1000 • Statistics (tables/Venn/Carroll diagrams, solve problems involving data, pictograms) • Measure (measure, compare, add and subtract: mass kg/g) • Time (read the time with increasing accuracy to the nearest minute. • Addition and Subtraction (solve problems involving more complex numbers) • Fractions (solve problems involving fractions) • Geometry (2D/3D shapes) • Multiplication and division (solve problems including missing number problems including positive integer scaling problems	• Measure (perimeter of simple 2D shapes. • Addition and Subtraction (more complex numbers, amounts of money to give change, formal methods for up to 3 digits, estimate the answer to a calculation, inverse operations to check answers, problems, including missing number problems, using number facts, place value, and more complex addition and subtraction) • Measure (analogue clocks, Roman Numerals from I to XII, and 12-hour and 24-hour clocks, durations of events, estimate and read time with increasing accuracy to the nearest minute; record and compare time in term of second, minutes and hours, a.m. / p.m., morning, afternoon, noon and midnight, number of seconds in a minute, days in each month, year and leap year. To measure, compare,

	• Measures (measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • Geometry (2-D shapes, right angles identify right angles, horizontal and vertical lines, perpendicular and parallel lines		add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). • To solve problems • Fractions (as numbers: unit fractions and non-unit fractions with small denominators. • Multiplication and Division (3, 4 and 8 multiplication tables.
Year 4	• Number and place value – numbers to 1000, tenths and hundredths • Fractions (equivalent fractions, simplifying and ordering fractions, fractions of shapes) • Measure – converting between measurements, analogue and digital clocks, capacity. • Geometry – properties of shape (irregular and regular polygons, 3D shapes inc. cubes and cuboids, position and direction for grid references. • Statistics – bar charts, pictograms, Caroll and Venn diagram. • Number – order and compare numbers beyond 1000, addition and subtraction 2 step problems. • Multiplication- all timestables.	• Number and place value – rounding 10, 100 and 1000., multiply and divide 10, 100, 1000., integer scaling problems. • Fractions- Fractions as decimals, remainders and simplifying. • Measure – converting between measurements, analogue and digital clocks, mass. • Geometry – properties of shape (irregular and regular polygons, types of triangles, symmetry, angles (obtuse and acute). • Statistics – discrete and continuous data in the form of bar charts, time graphs and other graphs. • Multiplication- all timestables.	• Number – recognise equivalents of fractions and decimals. Multiplying 2 digit and 3 digits by 1-digit numbers. Solving all 4 operations. • Time– read and write analogue and digital clocks. Converting between 12 hour and 24-hour time, using timetables. • Geometry – acute and obtuse angles, degrees of a turn, angles using protractors, perimeter and area of simple shapes. • Multiplication- all timestables.
Year 5	• Number and place value – numbers to 10,000,00, tenths and hundredths • Fractions (common factors, common multiplies and prime numbers, simplifying and ordering fractions) • Measure – perimeter of rectilinear shapes, area of rectangles, area of irregular shapes and volume • Geometry – properties of shape (irregular and regular polygons, angles and degrees, 3D shapes inc. cubes and cuboids & reflection and translation • Statistics – lines graphs inc. tables • Number – square and cubed numbers, Roman Numerals to 1,000,	• Number – multiples and factors, common factors inc. order and compare number to 10,000,00 • Fractions - +/- of fractions with different denominators, multiply proper numbers by whole numbers • Measure – problems inc. time, conversions of units & problems solving • Number – multiply and divide numbers, round numbers, decimals as fractions, percentages and decimal equivalent	• Number - round numbers and problem solve, round decimals to 2dp & problem solve to 3dp • Measure – problems solve with all units of measures • Geometry – position and direction inc. translations rotation

Year 6	• Number – place value, four functions, negative numbers • Fractions – all areas • Measurement – area and volume, conversions • Geometry – shape, position and direction • Statistics – position, translations and reflection • Ratio and proportion inc. percentages • Algebra – use of formula	• Number – place value, four functions, negative numbers • Fractions – all areas • Measurement – area and volume, conversions • Geometry – shape, position and direction • Statistics – position, translations and reflection • Ratio and proportion inc. Percentages • Algebra – use of formula	REVISION OF ALL OBJECTIVES NATIONAL CURRICULUM TESTS Select objectives below based on assessments • Number: place value • Number: four functions • Number: fractions • Measurement • Geometry: shape • Geometry: position and direction • Statistics • Ratio and proportion Algebra YEAR 7 TRANSITION (Advanced statistics, develop algebra knowledge and Number – percentage decimals and fractions) Statistics • Ratio and proportion • Algebra