Lostock Hall Primary School Progression Map

Subject: Maths	**EYFS**	**Year 1**	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Number & Calculation	-Mastering Number 0–5. Subitising and counting skills. Explore the composition of numbers within 5. Compare sets of objects; use the language of comparison (more/less/same). -Mastering Number Beyond 5. Continue subitising and counting skills. Explore composition of numbers within and beyond 5. Identify when two sets are equal or unequal.	-Numbers to 10: Counting, writing, comparing, ordering, 1 more/1 less, zero. -Numbers to 20: Counting, writing, comparing, ordering, number patterns. -Numbers to 40: Counting using "making 10", representing numbers on number lines, tens and ones, comparing numbers, number patterns. -Numbers to 100: Counting in tens and ones, place value, comparing numbers, number patterns. -Addition within 10: Using number bonds, counting on, completing number sentences, addition stories, picture problems. -Subtraction within 10: Crossing out, using number bonds, counting	-Numbers to 100: Counting to 100 using ones/tens, place value, comparing numbers, number bonds, number patterns. -Simple adding/subtracting 1-digit to/from 2-digit numbers. -Adding multiples of 10. -Addition / subtraction with renaming. -Adding three numbers. -Subtraction from multiples of 10. -Solving word problems using bar models. -Multiplication of 2, 5, 10: Equal groups, times tables, solving word problems. -Division of 2, 5, 10: Grouping, sharing, linking to multiplication, solving word problems,	-Counting in hundreds, tens, ones and composing and decomposing numbers. -Understanding place value of 3-digit numbers. -Comparing and ordering numbers. -Counting in fifties, fours, and eights; recognising and continuing number patterns. -Addition and subtraction facts, including commutative law. -Adding/subtracting 1-digit, multiples of 10, hundreds, 3-digit numbers (with/without renaming). -Column method for addition/subtraction. -Multi-step problems using bar models. -Multiplication facts 3, 4, 8.	-Counting in hundreds, twenty-fives, thousands. -Understanding place value in 4-digit numbers. -Comparing and ordering numbers. -Creating and recognising number patterns. -Rounding numbers to the nearest 10, 100, or 1000. -Using rounding to estimate. -Adding/subtracting with and without renaming (ones, tens, hundreds, thousands). -Using mental strategies for addition and subtraction. -Solving single-step and multi-step word problems.	-Reading and writing numbers up to 1,000,000 (including number discs). -Comparing numbers using place value, pictorial representations, and number lines. -Making number patterns (increasing and decreasing in multiples). -Rounding numbers to the nearest 10, 100, 1,000, 10,000, 100,000. -Using counting on/backwards strategies with concrete materials and number lines. -Adding and subtracting numbers within 1,000,000 (column method and rounding).	-Reading, writing, comparing, and ordering numbers up to 10,000,000. -Creating number combinations using a fixed number of digits. -Rounding numbers to the nearest ten thousand, hundred thousand, and million. -Using mixed operations, order of operations, and expressions. -Multiplying and dividing 3- and 4-digit numbers by 2-digit numbers (with and without regrouping). -Estimating products and division results.

	Introduce doubles. Connect quantities to numerals. -Mastering Number Consolidation. Counting to larger numbers. Develop a wider range of counting strategies.	back, subtraction stories, addition/subtraction fact families. -Addition and Subtraction within 20: Counting on, making 10, adding/subtracting ones, subtraction from 10, addition/subtraction facts. -Word problems: Deciding operation, applying number bonds, using pictorial representations, multi-step problems. -Multiplication: Equal groups, adding equal groups, making rows, doubles. -Division: Grouping equally, sharing equally.	identifying odd/even numbers.	-Multiplying 2-digit numbers by 1-digit; division by 1-digit (long division introduced). -Relationships between multiplication and division. -Problem solving using multiplication/division and bar models. -Multiplying 2-digit numbers by 1-digit, including with renaming. -Dividing 2-digit numbers, including long division. -Word problems for multiplication and division.	-Counting in multiples: 6, 7, 9, 11, 12. -Multiplying/dividing by 6, 7, 9, 11, 12. -Multiplying three numbers; multiplying multiples of 10 and 100. -Multiplying/dividing 2- and 3-digit numbers (with/without renaming). -Dividing with remainders. -Problem solving using multiplication and division (including scaling and comparison). -Multiplying by 0 and 1, dividing by 1, commutativity. -Word problems and multi-step problem solving. -Writing Roman numerals 1–20. -Writing Roman numerals up to 100.	-Solving comparison problems using addition and subtraction. -Consolidating place-value knowledge to solve addition and subtraction problems. -Finding multiples, factors, common factors, prime and composite numbers. -Identifying square and cube numbers. -Multiplying by 10, 100, 1,000; multiplying 2-, 3-, and 4-digit numbers by 1- or 2-digit numbers. -Dividing 3- and 4-digit numbers by 1-digit numbers (with and without remainder). -Solving word problems using multiplication and division strategies. -Solving single-step and multi-step problems using multiple operations.	-Solving word problems with bar models and patterns. -Finding common multiples, factors, and prime numbers, including numbers above 100. -Adding and subtracting negative numbers using number lines. -Using negative numbers in contextual problems and number stories. -Identifying patterns and expressing them algebraically. -Writing, evaluating, and using algebraic expressions and formulae. -Solving equations and representing unknown values.

						-Using bar models to represent and solve problems. -Writing Roman numerals up to 1,000. -Writing years in Roman numerals.	
Geometry & Measures	-Identify and describe 2D shapes (circle, square, triangle, rectangle). -Identify and describe 3D shapes (cube, cuboid, sphere, cone). -Recognise shapes in the environment. -Explore shape patterns. -Compare length, height, weight, and capacity. -Begin to understand time in simple contexts (day/night, first/next). -Explore measurement through hands-on activities.	-Properties of shapes: Recognising 2D and 3D shapes, grouping shapes, making patterns. -Position and direction: Naming positions, left/right, describing positions and movements, making turns. -Length/Height: Comparing, measuring with objects, body parts, rulers. -Mass: Comparing, finding, estimating mass. -Volume/Capacity: Comparing volume, finding capacity, describing half/quarter full. -Time: Telling time to the hour and half hour, sequencing events, estimating duration, using calendars. -Money: Recognising coins and notes, determining value.	-2D Shapes: Identifying sides, vertices, lines of symmetry, drawing shapes, moving and turning shapes, making and describing patterns. -3D Shapes: Recognising and describing faces, edges, vertices, constructing nets, grouping shapes, forming structures, and recognising patterns. -Length: Measuring in metres/centimetres, comparing lengths, solving word problems. -Mass: Measuring in grams/kilograms, comparing masses, solving word problems. -Volume: Measuring in litres/millilitres, comparing volumes, solving word problems. -Temperature: Reading and estimating temperature.	-Angles: identifying, right/acute/obtuse, making turns. -Lines: perpendicular, parallel, horizontal, vertical. -Drawing 2D shapes and describing 3D shapes. -Length: m, cm, mm, comparing lengths and solving word problems. -Mass: g, kg, solving addition, subtraction, multiplication, division problems. -Volume/Capacity: ml, l, two-step problems and solving word problems. -Money: adding, subtracting, calculating change, multi-step problems. -Time: telling time to the minute, 12/24-hour clocks, durations, seconds/minutes, start/end times. -Perimeter: measuring and calculating perimeter of	-Identifying types of angles. -Comparing angles. -Classifying triangles and quadrilaterals. -Recognising symmetrical figures and drawing lines of symmetry. -Completing and creating symmetrical figures. -Comparing and classifying shapes by angles, symmetry, and sides. -Describing position. -Plotting coordinates. -Describing translations using coordinates. -Time: 24-hour clocks, converting minutes ↔ seconds, hours ↔ minutes, years ↔ months, weeks ↔ days, solving duration problems.	-Identifying, measuring, and drawing angles (acute, right, obtuse, reflex). -Angles on a straight line, around a point, in quadrilaterals. -Investigating parallel lines, diagonals, regular and irregular polygons. -Describing sides and angles of rectangles and squares. -Naming and plotting points on grids. -Describing translations and reflections, including successive reflections. -Converting units of length, mass, and volume (metric and imperial).	-Converting units (metric and imperial) including decimals and fractions. -Using 24-hour time notation. -Finding area and perimeter of rectangles, triangles, and parallelograms. -Using prior knowledge of shapes to solve problems. -Calculating volume of cubes and cuboids. -Estimating and solving word problems involving volume. -Investigating angles: vertically opposite, in triangles, quadrilaterals, polygons.

			-Time: Telling/writing time to 5 minutes, sequencing events, finding durations and start/end times. -Money: Recognising coins/notes, counting, showing equal amounts, exchanging, comparing, calculating totals/change, solving word problems.	squares, rectangles, and other shapes.	-Money: recording, comparing, rounding, estimating amounts, solving problems using all operations. -Length, Mass, Volume: converting units, estimating, comparing and ordering measurements. -Area and Perimeter: estimating and calculating area and perimeter, comparing areas and perimeters of figures, focusing on squares and rectangles.	-Solving word problems involving length, mass, volume, time. -Reading temperature on thermometers. -Finding perimeter and area of rectangles, squares, and composite shapes. -Estimating area and drawing to scale. -Understanding volume of solids, cuboids, and liquids. -Solving word problems involving volume.	-Solving problems with angles in circles, triangles, and quadrilaterals. -Naming and constructing parts of circles (radius, diameter), quadrilaterals, triangles, and nets of 3D shapes. -Plotting points on coordinate grids, including negative numbers. -Describing translations and reflections. -Using algebra to describe position and movements.
Statistics & Data Handling	-	-	-Pictograms: Reading, interpreting, and creating pictograms, including multiple representations per symbol. -Word problems using bar modelling.	-Drawing and interpreting pictograms and bar graphs. -Using proportion to reflect differences in quantity.	-Drawing and reading pictograms, bar graphs, and line graphs. -Interpreting data from different graph types.	-Reading and interpreting tables and line graphs. -Drawing line graphs from tables, understanding relationships between data sets.	-Calculating and interpreting the mean (average). -Reading and interpreting line graphs and pie charts. -Converting miles and kilometres.

Lostock Hall Primary School Progression Map

Fractions, Decimals & Percentages	-Basic idea of sharing or halving.	-Making halves and quarters, sharing and grouping, finding half/quarter of shapes or objects.	-Making equal parts, halves, quarters, thirds. -Naming fractions. -Counting in halves, quarters, thirds. -Finding fractions of sets, numbers, and quantities. -Making a whole from fractions.	-Counting in tenths and fractions as division. -Fractions of a set and equivalent fractions (pictorial and multiplication). -Comparing and ordering fractions. -Adding/subtracting fractions with the same denominator. -Solving fraction word problems using bar models.	-Counting in hundredths. -Writing and representing mixed numbers on a number line. -Finding equivalent fractions. -Simplifying mixed numbers and improper fractions. -Adding/subtracting fractions (including recording as mixed numbers). -Word problems involving fractions. -Writing tenths and hundredths. -Dividing by 10 and 100. -Adding/subtracting tenths and hundredths. -Comparing, ordering, and rounding decimals. -Converting fractions to decimals.	-Creating fractions from division, writing improper fractions and mixed numbers. -Finding equivalent fractions, comparing and ordering fractions, improper fractions, and mixed numbers. -Adding and subtracting unlike fractions, creating improper fractions and mixed numbers. -Multiplying fractions and mixed numbers by whole numbers. -Solving multi-step fraction problems. -Reading, writing, comparing, and ordering decimals. -Converting fractions to decimals. -Adding and subtracting decimals (including money, measurement, and perimeter). -Rounding decimals to the nearest whole number or tenth.	-Simplifying fractions using common factors Comparing and ordering proper, improper fractions, and mixed numbers -Adding and subtracting unlike fractions and mixed numbers. -Multiplying and dividing proper fractions. -Reading, writing, and representing decimals to thousandths. -Dividing whole numbers to create decimals. -Converting fractions to decimals. -Multiplying and dividing decimals with or without regrouping and renaming. -Finding percentages of numbers and quantities. -Calculating percentage change.

						-Writing percentages and converting between fractions, decimals, and percentages. -Comparing proportions using percentages.	-Comparing amounts using percentages, bar models, and fractions. -Comparing quantities using ratios, fractions, and percentages. -Simplifying ratios and solving ratio word problems. -Using ratios to measure and count quantities.