Leverstock Green CE (VC) Primary School

Striving for excellence; caring for the individual.

Subject	**Maths**					
Subject Leader	**Ms Ozkaya**					
Year group	**Autumn 1**	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
Nursery	By the end of the year, children will be able to: develop fast recognition of up to 3 objects, without having to count them individually (subitising). Recite numbers past 5. Say one number for each item in order: 1,2,3,4,5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Show 'finger numbers' up to 5. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.Experiment with their own symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5. Compare quantities using language: 'more than', 'fewer than'. Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Make comparisons between objects relating to size, length, weight and capacity. Select shapes appropriately: flat surfaces for building, a triangular prism for a roof, etc. Combine shapes to make new ones – an arch, a bigger triangle, etc. Talk about and identify the patterns around them.					
Reception	By the end of the year, children will be able to: Count objects, actions and sounds. Subitise. Link the number symbol (numeral) with its cardinal number value. Count beyond ten. Compare numbers. Understand the 'one more than/one less than' relationship between consecutive numbers Explore the composition of numbers to 10. Automatically recall number bonds for numbers 0–5 and some to 10. Select, rotate and manipulate shapes to develop spatial reasoning skills. Continue, copy and create repeating patterns. Compare length, weight and capacity.					
Year group	**Autumn 1**	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**
Year 1	Positional language including ordinal numbers. Numbers to 10 – finding patterns, counting and comparison, estimating, ordering and regrouping the whole, part, whole models with addition and subtraction.	Problem solving skills Finding the balance between numbers. Making 10 using a variety of methods to 10 and 20. Doubles and halves (odd and even numbers) Find 1 more and 1 less.	Measures – language of comparing length, height, mass and speed Sequencing events – days of the week & months of the year Numbers to 20 – adding and subtracting using 'think 10' Numbers to 20 – equality and balance – part or whole unknown	Numbers to 20 – language and problem solving (part or whole unknown) Numbers to 20 – comparison (difference, more, less, fewer) including statistics Measures – coins and combinations to 20p – ordering and comparing Counting in 2s, 5s and 10s Measures – non-standard measures and introducing simple standard measures	Multiplication and division – equal or unequal groups and remainders Multiplication – repeated addition and arrays (number of groups and size of group) Multiplication – problem solving (identifying the number of groups and size of the group) Multiplication – scaling and counting in 2s to 24	Division – sharing and grouping problems. Time – telling the time, o'clock and half past Fractions – sharing into equal groups Fractions – equal or unequal parts of shapes Fractions – of continuous quantities including capacity Numbers to 20 – review Numbers to 100 – place value and digits, making 10s and some more Place value – estimation, ordering and comparison

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Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 2	Securing fluency – writing and sequencing of numbers Place value up to 120 Regrouping Representing, ordering and comparing numbers Writing numbers to 100 and counting and recognising sequences of numbers Addition and subtraction Compliments of 10 and 100	Multiplication and division - recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Fractions - recognise, find, name and write fractions Develop mental fluency	Fractions – recognise equivalent fractions. Geometry – recognise and describe properties of 2D and 3D shapes. Identify 2D shapes within a 3D shape. Compare and sort common shapes. Time - compare and sequence intervals of time 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. Know the number of minutes in an hour and the number of hours in a day.	Continue developing understanding of time. Units of measure - choose and use appropriate standard units to estimate and measure using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, Volume/capacity Money - Recognise our money system. Combine amounts to make a particular value Find different combinations of coins that equal the same amounts of money Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change Statistics – Interpret a variety of charts / graphs Ask simple questions	Revisit the 4 operations (mental fluency and formal written methods) Revisit fractions Developing reasoning skills Applying prior learning	Revisit: Shape Money Time Four operations

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Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	Place value and regrouping Counting on and back in ones, tens and hundreds Estimation, rounding and measures + - inverse fact families Mental fluency	Written addition Witten subtraction Worded problem solving Statistics – interpreting bar charts and tables Angles and lines 2D shapes – properties and drawing Perimeter, including problem solving	Multiplication – 3, 4 and 8 Times Tables including Counting Division – 1, 2, 3, 5, 4 and 8 Times Tables Multiplication – Strategy, Associative and Distributive Laws Statistics – Pictograms and Scaled Bar Charts Multiplication and Division Worded Problems	Fractions – Finding Fractions of Discrete and Continuous Quantities Ordering and Comparing Fractions Adding and Subtracting Fractions with the Same Denominators Fractions – Problem Solving with Unit and Non-Unit Fractions Multiplication – Multiplying Multiples of Ten Multiplication – Formal Written Multiplication	Division Problem Solving – Sharing and Grouping Division – Two and Three-Digit Numbers by One-Digit Numbers including Halving Multiplication, Division and Fractions – Scaling and Correspondence Problems Division – Long Division Time – Hours, Minutes, Seconds, Days, Weeks, Months, Years Time – Telling the Time (Analogue and Digital) and Estimation Time – Duration	Securing the Four Operations with Whole Number including Problem Solving Place Value and Decimals – Ten Times Greater and Ten Times Smaller Place Value and Decimals – Regrouping Place Value and Decimals – Estimation, Comparing and Rounding Measures – Measuring and Problem Solving 3-D Shape – Building and Identifying Properties

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Year 4	Place value Rounding, estimation and magnitude Securing addition and subtraction mental fluency Securing formal written addition and subtraction fluency. Counting in multiplies of 6, 7, 9, 25 and 1000 Multiplication and division facts (times tables) Factor pairs, integer scaling and correspondence problems Problem solving including measures to apply place value, metal strategies.	Multiply and divide a one or two-digit number by 10 and 100 Measure– conversion of units Measures– compare, estimate and calculate Discrete and continuous data (time graphs), including application of scales and division Perimeter and area	Properties of shape Symmetry Decimal numbers Calculating with decimals Measure-money Problem solving involving decimals to two decimal places Times tables	Add and subtract fractions with the same denominator Finding fractions of quantities Fractions in the context of measure Equivalent fractions, ordering and comparing Multiply two and three digit numbers by a one-digit number using a formal written layout. Divide two and three digit numbers by a one-digit number using a formal written layout.	Time– read, write calculate and convert time on analogue and digital 12 and 24 hour clocks. Statistics– interpret and present continuous and discrete data, solve problems incorporating measures Roman numerals to 100 and zero Negative numbers– counting through zero and calculating in context. .	Geometry– angles Geometry– properties of a triangle Geometry– coordinates in the first quadrant and translations Geometry- position and direction, incorporating angles and plotting points of a shape Multiplication and division review (move forward and do the week before multiplication check) Fractions review Application and problem solving– developing operational sense.

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Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5	Place Value and Rounding of Large Numbers. Interpret Negative Numbers. Place Value of Numbers with up to Three Decimal Places. Multiply and Divide by 10, 100 and 1,000. Properties of Number – Multiples, Factors and Common Factors. Prime and Composite Numbers. Multiply and Divide Mentally. Solve Problems Involving Knowledge of Key Facts. Add and Subtract Using a Range of Strategies.	Add and Subtract Using Formal Written Methods. Formal Written Method for Multiplication. Formal Written Method of Short Division. Equivalent Fractions. Compare and Order Fractions. Adding and Subtracting Fractions	Problem Solving – All Four Operations. Multiply Fractions by Whole Numbers. Fraction Problem Solving. Measure – Converting Units of Measure Area Volume and Capacity.	Percentages Problem Solving – Percentages 3-D Shapes from 2-D Representations Reflection and Translation Perimeter Estimate, Compare, Measure and Draw Angles. Identify unknown angles.	Formal Methods for Division and Multiplication in Increasingly Complex Problems. Strategies for Multiplication and Division (Mental and Written) Solving Problems involving Scaling by Simple Fractions and Rates Conversion of Imperial and Metric Units of Measure Fractions, Decimals and Percentages Problem Solving Reading Timetables and Calculating with Time	Solve Problems involving the Four Operations Distinguish between Regular and Irregular Polygons Use Properties of Rectangles Statistics – Solve Comparison, Sum and Difference Problems using Information in a Line Graph Statistics – Interpreting and Evaluating Information Presented in Charts and Tables Roman Numerals

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Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 6	Place value and rounding Multiply numbers by 10, 100 and 1000 Formal methods of addition & subtraction. Decimal numbers. Solve multi-step problems. Multiplication & division Reasoning skills	Multiples, factors & prime numbers Multiplication & division (including long division) Add and subtract fractions who denominators are of the same multiple. Equivalent fractions Comparing and ordering fractions Order of operations Properties of 2D & 3D shapes Pie charts Reasoning skills	Mental methods of computation with all four operations to answer arithmetic problems quickly. Fractions, Decimals and Percentages Reasoning and Problem Solving Add, subtract, multiply and divide fractions and decimals through a range of reasoning activities. Additionally, develop clearer explanations and reasoning to convince and prove why something is or is not the case using examples.	Area and perimeter. Volume Ratio and proportion Mean average Algebra and sequences Recap of previous topics SATS Prep Booster classes	Problem Solving Investigations Statistics Consolidation	Problem Solving Investigations Statistics Consolidation