Icknield Walk First School

Maths Progression Map

Year 1 to Year 4

	Year 1	Year 2	Year 3	Year 4
Autumn	Geometry – Positional language including ordinal numbers Numbers to 10 – Finding patterns in numbers (including subitising) Numbers to 10 – Counting and comparison (more, less, fewer) Numbers to 10 – Estimating and ordering Numbers to 10 – Regrouping the whole Numbers to 10 – Part whole addition and subtraction Numbers to 10 – Solving problems using part or whole unknown	Securing fluency to 20 Place value – Making tens and some more Place value and regrouping 2-digit numbers Counting on and back in ones and tens from any number Representing, ordering and comparing numbers to 100 and quantities for measures Estimation and magnitude Numbers to 20 – Mental addition and subtraction Finding complements of 10 and 100 including measures	Place value and regrouping Counting on and back in ones, tens and hundreds Estimation, magnitude and rounding Measures – Comparison, estimation and magnitude Mental fluency – Addition Mental fluency – Subtraction Fact families and applying the inverse Written addition Written subtraction Problem solving - Worded problems	Place value – order and compare numbers beyond 1000 Rounding, estimation and magnitude Securing addition and subtraction mental fluency Securing formal written addition and subtraction fluency Counting in multiples 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,

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Year 1 to Year 4

	Numbers to 10 – Comparison Numbers to 10 – Equality and balance Numbers to 20 – Making ten and some more Numbers to 20 – Estimating and ordering, one more and one less Numbers to 20 – Doubling and halving Numbers to 20 – Odd and even numbers Geometry – Names and properties of 2D and 3D shape	Add and subtract numbers mentally using 1 and 2-digit numbers Finding part or whole unknown Money – Making combinations and finding change comparison (difference, more, less, fewer) Measures – Estimation and measure using different scales	Statistics – Interpreting bar charts and tables Angles, right angles and estimation Perpendicular and parallel lines, vertical and horizontal lines 2D shape – Properties and drawing Perimeter including problem solving using written and mental methods	mental strategies and arithmetic laws Multiply and divide a 1 or 2-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

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Year 1 to Year 4

	Year 1	Year 2	Year 3	Year 4
Spring	Measures – The language of comparing length, height, mass and speed Sequencing events – Days of the week and months of the year Numbers to 20 – Adding using 'Think 10' Numbers to 20 – Subtraction using 'Think 10' Numbers to 20 – Equality and balance Numbers to 20 – Part or whole unknown Numbers to 20 – Language and problems solving (part or whole unknown)	Statistics – Totalling and comparing amounts in block graphs, pictograms, tables and tally charts Written addition method Commutativity in addition but not in subtraction Written subtraction method Problem solving with addition and subtraction in a range of contexts Time – Telling the time: O'clock, half past, quarter past and quarter to Time – Estimating, ordering and comparing time	Multiplication – 3, 4, 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	Properties of shape Symmetry Decimal numbers Calculating with decimals Measure – Money Problem solving involving decimals to 2 decimal places Add and subtract fractions with the same denominator Finding fractions of quantities Fractions in the context of measure Equivalent fractions, ordering and comparing

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Year 1 to Year 4

	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	Double and halve 1 and 2-digit numbers and amounts of money Times tables – 2s, 5s and 10s. Patterns and strategy (counting in 3s) Multiplication – Multiples and repeated addition Multiplication – Number of groups, group size and product Multiplication - Problem solving Division – Sharing and grouping Division – Sharing and grouping problems including remainders	Adding and subtracting fractions with the same denominators Fractions – Problem solving with unit and non-unit fractions Multiplication – Multiplying multiples of 10 Multiplication – Formal written multiplication	Multiply 2 and 3-digit numbers by a 1-digit number using a formal written layout Divide 2 and 3-digit numbers by a 1-digit number using a formal written layout

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Maths Progression Map

Year 1 to Year 4

Summer	Year 1	Year 2	Year 3	Year 4
	Multiplication and division – Equal or unequal groups and remainders Multiplication – Repeated addition and arrays (number of groups and size of groups) Multiplication – Problem solving (Identifying the number of groups and the 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 – Finding halves, quarters and thirds of amounts Fractions – Finding halves, quarters and thirds of shapes Fractions – Finding three-quarters of shapes and amounts Fractions – Equivalence Fractions – Of continuous quantities Time – Telling the time to the nearest 5 minutes Problem solving for all operations (including fractions)	Division problem solving – Sharing and grouping Division – 2 and 3-digit numbers by 1-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	Time – Read, write, calculate and convert time on analogue and digital 12-and 24-hour clocks Statistics – Interpret and present continuous and discrete date, solve problems incorporating measures Roman numerals to 100 and 0 Negative numbers – counting through 0 and calculating in context Geometry – Angles Geometry – Properties of triangles Geometry – Coordinates in the first quadrant and translations

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Maths Progression Map

Year 1 to Year 4

	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 tens and some more Place value – Estimation, ordering and comparison	Multiplication and division – equality and balance Geometry – Properties of 2D and 3D shape, classifying and sorting Geometry – Symmetry Mental calculation review Geometry – Sequencing Geometry – Rotation and right angles Place value and written calculation review	Securing the four operations with whole numbers 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 3D shape – Building and identifying properties	Geometry – Position and direction, incorporating angles and plotting points of a shape Multiplication and division review Area Fractions review Application and problem solving – Developing operation sense