**Year 4 Lynnfield Curriculum Progression Overview - Maths**

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| **Year 4** | **Autumn** | **Spring** | **Summer** |
| **Objectives** | **Harry Potter****‘Do you believe in magic?’ – Science (Healthy Thinkers)** | **Volcanoes****‘Why do people choose to live near volcanoes?’ *or* ‘Is it a healthy choice to live near volcanoes?’ –Geography ( Healthy Eaters)** | **Anglo-Saxons/Vikings****‘Do “settlers” ever actually “settle” in Britain?’ – History (Healthy Movers)** |
| NPVR | * Count in multiples of 6, 7, 9. 25 and 1000.
* Find 1000 more or less than a given number.
* Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones)
* Order and compare numbers beyond 1000
* Identify, represent and estimate numbers using different representations.
* Round any number to the nearest 10, 100 or 1000
* Solve number and practical problems that involve all of the above and with increasingly large positive numbers.
* Count backwards through zero to include negative numbers.
* Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value.
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| ASMD | * Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.
* Estimate and use inverse operations to check answers to a calculation.
* Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.
* Recall and use multiplication and division facts for multiplication tables up to 12 × 12.
* Count in multiples of 6, 7, 9. 25 and 1000
* Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.
* Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.
 | * Recall and use multiplication and division facts for multiplication tables up to 12 × 12.
* Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.
* Recognise and use factor pairs and commutativity in mental calculations.
* Multiply two digit and three digit numbers by a one digit number using formal written layout.
* Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.
 | * Recall and use multiplication and division facts for multiplication tables up to 12 × 12.
* Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers.
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| F |  | * Recognise and show, using diagrams, families of common equivalent fractions.
* Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
* Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.
* Add and subtract fractions with the same denominator.
* Recognise and write decimal equivalents of any number of tenths or hundredths.
* Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths.
* Solve simple measure and money problems involving fractions and decimals to two decimal places.
 | * Compare numbers with the same number of decimal places up to two decimal places.
* Round decimals with one decimal place to the nearest whole number.
* Recognise and write decimal equivalents to 1/4 , 1/2 and ¾.
* Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths
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| M | * Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
* Convert between different units of measure [for example, kilometre to metre]
 | * Find the area of rectilinear shapes by counting squares.
* Convert between different units of measure [for example, kilometre to metre].
 | * Estimate, compare and calculate different measures, including money in pounds and pence.
* Solve simple measure and money problems involving fractions and decimals to two decimal places.
* Convert between different units of measure [for example, kilometre to metre; hour to minute]
* Read, write and convert time between analogue and digital 12- and 24-hour clocks.
* Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.
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| Sh |  |  | * Identify acute and obtuse angles and compare and order angles up to two right angles by size.
* Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
* Identify lines of symmetry in 2-D shapes presented in different orientations.
* Complete a simple symmetric figure with respect to a specific line of symmetry.
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| PDM |  |  | * Describe positions on a 2-D grid as coordinates in the first quadrant.
* Plot specified points and draw sides to complete a given polygon.
* Describe movements between positions as translations of a given unit to the left/ right and up/ down.
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| St |  |  | * Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
* Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.
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| Fluency | * Multiplication facts for 6x table
* Division facts for 6x table
* Multiplication facts for 7x table
* Division facts for 7x table
* Multiplication facts for 9x table
* Division facts for 9x table
* Multiplication facts for 11x table
* Division facts for 11x table
* Multiplication facts for 12x table
* Division facts for 12x table
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