Year 3 and 4 Numeracy Long term map Year 2024 2025 Updated Dec 24

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<tr><td rowspan="2">Autumn (8+7)</td><td rowspan="2">Settling in to new class</td><td colspan="6">Number: Place Value
(5 weeks)</td><td colspan="2">Year 4 – Place Value continued (Roman Numerals and Rounding)
Year 3 – Addition and Subtraction – Adding and subtracting 1s, 10s and 100s</td><td colspan="5">Addition and Subtraction
(5 weeks)</td><td>Multiplication and Division – Mental
(1 week)</td><td rowspan="2"></td></tr>
<tr><td colspan="9">Friday Lesson – Shape</td><td colspan="5">Friday lesson – TTRockstars lessons (+Mental Add and subtract intervention)</td></tr>
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(6 weeks)</td><td rowspan="2"></td><td colspan="3">Fractions
(4 weeks)</td><td colspan="2">(2 weeks)
Year 3 – Revision of written methods and word problems
Year 4 - Decimals</td><td rowspan="2"></td></tr>
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<tr><td>Summer (5+7)</td><td colspan="2">Money
(3 weeks)</td><td colspan="3">Year A – Length (Year 3 and Year 4) taught to both year groups
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(2 weeks)</td><td colspan="2"></td><td>Year A – All Perimeter lessons (both Year 3 and 4) taught to both year groups
Year B – All Position and Direction (Year 4) and Area (Year 4) taught to both year groups
(2 weeks)</td><td colspan="4">Time
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*Please note that these plans may change due to the speed and coverage needed for particular groups or children. They also may be taught in a different order depending on how it links with other curricular areas.

Objectives breakdown below - Year 3 **Year 4**

Coverage

Number- Place Value	Number – Addition and Subtraction
Read and write numbers up to 1000 in numerals and in words. **Read and write numbers up to 10000 in numerals and in words.** Identify, represent and estimate numbers using different representations. Find 10 or 100 more or less than a given number. **Find 1000 more or less than a given number.** Recognise the place value of each digit in a 3 digit number. **Recognise the place value of each digit in a 4 digit number.** Order and compare numbers to 1000. **Order and compare numbers beyond 1000**. Count from 0 in multiples of 50 and 100 **Count in multiples of 25 and 1000** Solve number problems and practical problems involving these ideas. **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.** **Round any number to the nearest 10, 100 or 1000** **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.**	Add and subtract numbers mentally, including: a three digit number and ones; a three-digit number and tens; a three digit number and hundreds. Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. **Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate.** Estimate the answer to a calculation and use inverse operations to check answers. **Estimate and use inverse operations to check answers to a calculation.** Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. **Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why.**

Number – multiplication and division	Fractions	Fractions and Decimals
Count from 0 in multiples of 4 and 8 **Count in multiples of 6, 7 and 9** Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. **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.** F**ind the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths** **Recognise and use factor pairs and commutativity in mental calculations.** Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods. **Multiply two digit and three digit numbers by a one digit number using formal written layout.** Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objectives. **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.**	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. Solve problems that involve all of the above. **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.** Recognise and show, using diagrams, equivalent fractions with small denominators. **Recognise and show, using diagrams, families of common equivalent fractions.** Add and subtract fractions with the same denominator within one whole. **Add and subtract fractions with the same denominator.**	Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 **Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.** **Recognise and write decimal equivalents of any number of tenths or hundredths.** **Recognise and write decimal equivalents to a quarter, half and three quarters** **Round decimals with one decimal place to the nearest whole number.** **Compare numbers with the same number of decimal places up to two decimal places.**

Measurement: Money	Geometry: Properties of Shapes	Measurement: Time	Measurement: volume and capacity (Y3)	Co-ordinates (Y4)	Statistics	Measurement – Length, Perimeter and Area
Add and subtract amounts of money to give change using both £ and p in practical contexts. **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.**	Recognise angles as a property of shape or a description of a turn. Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. **Identify acute and obtuse angles and compare and order angles up to two right angles by size.** Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. **Identify lines of symmetry in 2D shapes presented in different orientations.** **Complete a simple symmetric figure with respect to a specific line of symmetry**. Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3D shapes in different orientations and describe them. **Compare and classify geometric shapes, including quadrilaterals**	Tell and write the time from an analogue clock, including using Roman numerals and 12-hour and 24-hour clocks. **Read, write & convert time between analogue and digital 12 and 24 hour clocks.** Estimate and read time with increasing accuracy to the nearest minute. Record and compare time in terms of seconds, minutes and hours. **Convert between different units of measure eg hour to minute.** Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight. Know the number of seconds in a minute and the number of days in each month, year and leap year. **Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days**	Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml).	**Describe positions on a 2D grid as coordinates in the first quadrant.** **Describe movements between positions as translations of a given unit to the left/ right and up/ down.** **Plot specified points and draw sides to complete a given polygon.**	Interpret and present data using bar charts, pictograms and tables. **Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs**. Solve one-step and two-step questions (for example, 'How many more?' and 'How many fewer?') using information presented in scaled bar charts and pictograms and tables. **Solve comparison, sum and difference problems using information presented in bar charts, pictograms,**	Measure, compare, add and subtract: lengths (m/cm/mm). Measure the perimeter of simple 2D shapes. **Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres** Continue to measure using the appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed and simple equivalents of mixed units. **Convert between different units of measure eg kilometre to metre.** **Find the area of rectilinear shapes by counting squares.**

	and triangles, based on their properties and sizes.	Compare durations of events (for example to calculate the time taken by particular events or tasks).			**tables and other graphs.**	