Collingwood Primary School

Year 3 Maths Long Term Curriculum Plan

Autumn **(2x) 4x** **(4x) 8x**	**Spring** **3x** **(3x) 6x**	**Summer** **(6x) 12x** **Revision**	**Continually revisited objectives**
Number: Place Value (Within 1000) •Continue to count in 1s, 10 and 100s from any number to 1000, (Including measures) •Read and write, compare and order numbers up to 1000 in numerals and words. •Become fluent in the order and place value of numbers to 1000 •Use the vocabulary of comparing and ordering numbers use of >, < symbols and = sign. •Recognise the place value of each digit in HTO. e.g. 146 as 100 + 40 + 6 and as 1 hundred, 4 tens, 6 ones. •Apply partitioning e.g. 146 = 100 + 40 + 6 and 146 = 130 + 16. •Find 1, 10 and 100 more and one less than a given number. •Round any number to nearest 10 or 100. •Count in 50s	**Number: Multiplication and division** • Consolidate 2, 4 and 8 tables. • Count in multiples of 6 • Comparing statements. •Write and calculate mathematical statements for x and ÷ using the multiplication tables that are known, including for TO x O, using mental and progressing to formal written methods. •Solve problems, including missing number problems, involving multiplications and division, including measuring contexts and positive integer scaling problems (e.g. four times as high, 8 times as long) and correspondence problems in which n objects are connected to m objects (e.g. 3 hats and 4 coats, how many different outfits, 4 cakes shared equally between 8 children). •Use rounding, estimation and inverse operations to check answers	**Number: Fractions** •Add and subtract fractions with the same denominator within one whole e.g. 5/7 + 1/7 = 6/7. •Count up and down in fractions including tenths. •Recognise that tenths arise from dividing an object into ten equal parts and in dividing one-digit numbers or quantities by 10, connecting them to place value, decimal measures and division by 10.	•Continue to use multiples of 2, 3, 5 and 10. •Count from 0 in multiples of 4, 6 8, 50 and 100 •Find 10 or 100 more or less than a given number •Recognise patterns in sequences of multiples and connections between them e.g. explore patterns on a 12 x 12 multiplication grid. •Recognise and extend number sequences formed by counting from any number in steps of constant size. •Apply understanding of number properties to solve routine and non-routine problems and puzzles involving numbers, money or measure •Solve numbers and practical problems and puzzles involving numbers, money or measures. Explain methods and reasoning orally and in writing, including using diagrams and symbols. •Identify, represent and estimate numbers using different representations. •Recognise the place value of each digit in HTO. •Round any number to nearest 10 or 100. •Practice recall of addition and
	Measurement: Length and perimeter • Measure length – millimetres, centimetres and metres • Equivalent lengths – metres and centimetres. • Equivalent lengths – millimetres and	**Measurement: Money** • Understanding pounds and pence. • Converting pounds and pence. •Add and subtract amounts of money to give change, using both £ and p in practical contexts.	

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	centimetres. • Compare lengths. Add and subtract lengths • Measure and calculate perimeter.		subtraction facts to 20; use these known facts and understanding of place value to quickly derive sums and differences using two-digit numbers. •Estimate the answer to a calculation and use inverse operations to check answers. •Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. •Use and explain the equals sign to indicate equivalence •Recall and use multiplication and division facts for 3, 4, 6 and 8s. •Continue to practice 2, 5 and 10 tables. •Connect the 2, 4 and 8 multiplication tables through doubling. •Count up and down in fractions including tenths. •Add and subtract fractions with the same denominator within one whole e.g. 5/7 + 1/7 = 6/7. •Become fluent in recognising the value of coins; •Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and the 12-hour and 24-hour clocks. •Use the digital 12 hour clock. •Know the number of seconds in a minute and the number of days in each month, a year and leap year.
Number: Addition and Subtraction •Add and subtract numbers mentally including: HTO – O, HTO – T, HTO – H. •addition and subtraction of two digit numbers including additions with answers exceeding 100. •Add and subtract numbers with up to three digits, using formal written methods of column addition and subtraction. •Estimate answers to calculations and use inverse to check. •Understand commutative/associative addition. •Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. •Use and explain the equals sign to indicate equivalence •Solve calculation problems using information from a range of tables and charts. •Spot number patterns	**Number: Fractions** •Continue to recognise fractions in the context of parts of a whole, numbers, measurements, a shape, and unit fractions as a division of a quantity. •Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. •Understand the relation between unit fractions as operators (fractions of), and division by integers. •Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. •Use them on a number line and deduce relations between them such as size and equivalence. Go beyond the 0 – 1 interval •Compare and order unit fractions, and fractions with the same denominators. •Recognise and show, using diagrams, equivalent fractions with small denominators. •Apply understanding of fractions to solve routine and non-routine problems and puzzles involving numbers, shapes, money or measures. Explain methods and reasoning orally and in writing, including using diagrams and symbols	**Measurement: Time** •Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and the 12-hour and 24-hour clocks. •Use the digital 12 hour clock. •Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./ p.m., morning, afternoon, noon and midnight. •Compare duration of events e.g. the time taken by a particular event or task	

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Number: Multiplication and division •Recall and use multiplication and division facts for the 3, 4 and 8s. •Continue to practice 2, 5 and 10 tables. •Connect the 2, 4 and 8 multiplication tables through doubling. •Develop efficient mental methods for example using commutativity and associativity e.g. 4 x 12 x 5 = 20 x 12 = 240 and multiplication and division facts e.g. using 3 x 2 = 6, 6 ÷ 3 = 2 and 2 = 6 ÷ 3 = 2 to derive related facts such as 30 x 2 = 60, 60 ÷ 3 = 20 and 20 = 60 ÷ 3.	**Measurement: Mass and capacity** • Measure mass in kilograms and grams. • Compare mass. • Add and subtract mass. • Measure capacity in litres and millilitres. • Compare capacity. • Add and subtract capacity.	**Geometry: Shape** •Use parallel and perpendicular to describe, identify, compare and sort 2-D and 3-D shapse. •Descriptions include length of lines and acute and obtuse angles. •Extend knowledge of the properties of shapes to symmetrical and non-symmetrical •Draw 2-D shapes and make 3-D shapes using modelling materials •Recognise 3-D shapes in different orientations and describe them. •Recognise angles as a property of shape or a description of 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 or less than a right angle and use the language of acute and obtuse. •Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. •Solve problems, involving reasoning about shapes and their properties. **Statistics** • Make tally charts. • Draw and interpret pictograms. – 2,3,4 5, 8 and 10 times tables • Bar charts and Tables.	