Year 3 Maths Overview (2019-2020)

Includes a weekly times tables/mental maths/arithmetic session throughout the year. Problem solving and reasoning is integrated into lessons. Sometimes lessons will have a problem solving focus where a specific problem solving skill may be taught, but generally problem solving happens within the context of other lessons.

	1	2	3	4	5	6	7
Term 1	**Number: Place Value** • count from 0 in multiples of 4, 8, 50 and 100; • find 10 or 100 more or less than a given number • recognise the place value of each digit in a three-digit number HTO • compare and order numbers up to 1000 • identify, represent and estimate numbers using different representations • read and write numbers up to 1000 in numerals and in words • solve number problems and practical problems involving these ideas			**Number: Addition and Subtraction** • add and subtract numbers mentally, 3DandO, 3DandT, 3DandH • add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • 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			
Term 2	**Number: Addition and Subtraction** • add and subtract numbers mentally, 3DandO, 3DandT, 3DandH • add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • 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			**Number: Multiplication and division** • count from 0 in multiples of 4, 8, 50 and 100. • recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for 2DxO, using mental and progressing to formal written methods. • solve problems, including missing number problems involving multiplication and division, including positive integer scaling problems in which n objects are connected to m objects			
Term 3	**Number: Multiplication and division** • recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for 2DxO, using mental and progressing to formal written methods. • solve problems, including missing number problems involving multiplication and division, including positive integer scaling problems in which n objects are connected to m objects			**Measurement-Money** • add and subtract amounts of money to give change, using both £ and p in practical contexts	**Statistics** • interpret and present data using bar charts, pictograms and tables • solve one-step and two-step questions		

Term 4	**Measurement – Length and Perimeter** • measure, compare, add and subtract: lengths (m/cm/mm) • measure the perimeter of simple 2-D shapes	**Number: Fractions** • recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators • 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 • recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • Solve problems that involve all of the above
Term 5	**Decimals and Fractions** • recognise and show, using diagrams, equivalent fractions with small denominators • add and subtract fractions with the same denominator within one whole • compare and order unit fractions (same denominator) • solve problems that involve all of the above	**Measurement – Time** • Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12 hour and 24 hour clocks • estimate and read time to the nearest minute • record and compare time in terms of seconds, minuets and hours. Use vocabulary such as o'clock, am/pm, 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 • compare durations of events
Term 6	**Geometry – Properties of shapes** • draw 2-D shapes and make 3-D shapes using modelling materials • recognize and describe 3-D shapes in different orientations • 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 and four a complete turn; identify whether angles are greater than or less than a right angle • identify horizontal and vertical lines and pairs of perpendicular and parallel lines	**Measurement – Mass and capacity** • measure, compare, add and subtract measure mass (kg/g); volume/capacity (l/ml)