

Year 3	Number and place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Geometry: Properties of shape
Milestone 1	- count from 0 in multiples of 4; find 10 or 100 more or less than a given number - recognise the place value of each digit in a three-digit number (hundreds, tens, ones) - identify, represent and estimate numbers using different representations	- add and subtract numbers mentally, including: a three-digit number and ones three-digit number and hundreds - estimate the answer to a calculation and use inverse operations to check answers Statistics: - Statistics: interpret and present data using bar charts, pictograms and tables	- recall and use multiplication and division facts for the 3, 4 multiplication tables - write and calculate mathematical statements for multiplication and division using the multiplication tables that they know using mental strategies	- count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts - recognise, find and write fraction of a discrete set of objects: unit fractions - compare and order unit fractions, and fractions with the same denominators	- measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ ml) - measure the perimeter of simple 2-D shapes - add and subtract amounts of money - tell and write the time from an analogue clock, and 12-hour - use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight Statistics: - Statistics: interpret and present data using bar charts, pictograms and tables	- draw 2-D shapes and make 3-D shapes using modelling materials; - identify right angles, - identify horizontal and vertical lines
Milestone 2	- count from 0 in multiples of 4, 50 and 100; find 10 or 100 more or less than a given number - compare and order numbers up to 1000 - read and write numbers up to 1000 in numerals and in words	- add and subtract numbers mentally, Including a three-digit number and tens - add and subtract numbers with up to three digits,		- recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 - recognise and use fractions as numbers: unit fractions - recognise and show, using diagrams, equivalent fractions with small denominators - compare and order unit fractions	- measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/ capacity (l/ml) - measure the perimeter of simple 2-D shapes - add and subtract amounts of money to give change, using both £ and p in practical contexts - know the number of seconds in a minute, year and leap year	- recognise angles as a property of shape - identify right angles, recognise that two right angles make a half-turn,
Milestone 3	- Count from 0 in multiples of 4, 8, 50 and 100 3NPV–1 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10. 3NPV–2 Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning.	- solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. - Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. - Interpret and present data using scaled bar charts, pictograms and tables to solve one-step and two-step questions, for example, ‘How many more?’ and ‘How many fewer?’ 3NF–1 Secure fluency in addition and subtraction facts that bridge 10, through continued practice. 3AS–1 Calculate complements to 100. 3AS–2 Add and subtract up to three-digit numbers using columnar methods.	- recall and use multiplication and division facts for the 4 and 8 multiplication tables - write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental strategies and formal methods 3NF–2 Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number	- recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. - recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. - add and subtract fractions with the same denominator within one whole. (e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$) 3F–1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts.	- 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 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 - know the number of seconds in a minute and the number of days in each month, year and leap year - compare durations of events, for example to calculate the time taken by particular events or tasks	- 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 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 horizontal and vertical lines and pairs of perpendicular and parallel lines.

			• 3NPV–3 Reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10. • 3NPV–4 Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts.	• 3AS–3 Manipulate the additive relationship: ◦ Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. ◦ Understand and use the commutative property of addition, and understand the related property for subtraction	• 3NF–2 Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number • 3NF–3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10). • 3MD–1 Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division.	• 3F–2 Find unit fractions of quantities using known division facts (multiplication tables fluency). • 3F–3 Reason about the location of any fraction within 1 in the linear number system • 3F–4 Add and subtract fractions with the same denominator, within 1		• 3G–1 Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations • 3G–2 Draw polygons by joining marked points, and identify parallel and perpendicular sides
--	--	--	---	--	---	---	--	--

