Autumn Term	Number: Place Value	Number: Addition and Subtraction	Number: Multiplication and Division
	Identify, represent and estimate numbers using different representations. Find 10 or 100 more than a given number, recognise the place value of each digit in a three digit number (hundreds, tens and ones). Compare and order numbers up to 1000. Read and write numbers up to 1000 in numerals and words. Solve number problems and practical problem solving involving these ideas. Count from 100 in multiples of 50 and 100. --- RTP - 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. Recognise the place value of each digit in three-digit numbers and compose and decompose three-digit numbers using standard and non-standard partitioning. 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. 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.	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 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. --- RTP - Secure fluency in addition and subtraction facts that bridge 10, through continued practice. Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10). Calculate complements to 100. Add and subtract up to three-digit numbers using columnar methods. 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.	Recall and use multiplication and division facts for the 3, 4 and 8 times tables. Calculate mathematical statements for multiplications and division within the multiplication tables and write them using the multiplication (x), division and equals (=) signs. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in context. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. --- RTP - 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. Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).

Spring Term	Number: Multiplication and Division	Measure: Money	Statistics	Measure: Length and Perimeter	Number: Fractions
	Recall and use multiplication and division for the facts for the 3, 4 and 8 multiplication tables. Solve problems including missing number problems involving multiplication and division, positive integer scaling problems and correspondence problems in which n objects are connected to m objects. Write and calculate mathematical statements for multiplications and division using the multiplication tables they know, including for two digit numbers times one digit numbers, using mental methods and progressing to formal written methods. --- RTP - Apply known multiplication and division facts to solve contextual problems with different structures, including quotative and partitive division.	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Interpret and present data using bar charts, pictograms and tables. Solve one step and two step questions (for example, "How many more?" and "How many fewer?" using information presented in scaled charts and tables.	Measure, compare, add and subtract lengths (m/cm/mm). Solve problems including missing number problems, using number facts, place value, and more complex addition and subtraction (linked to measure). Measure the perimeter of simple 2D shapes. Continue to measure using appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed and simple equivalents of mixed units.	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 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. --- RTP - Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. Find unit fractions of quantities using known division facts (multiplication tables fluency). Reason about the location of any fraction within 1 in the linear number system.

Summer Term	Number: Fractions	Measure: Time	Geometry: Properties of Shape	Measure: Mass and Capacity.
	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, and fractions with the same denominators. Solve problems that involve all of the above. --- RTP - Add and subtract fractions with the same denominator, within 1. Reason about the location of any fraction within 1 in the linear number system.	Tell and write the time from an analogue clock, including using Roman numerals, 12 hour clock and 24 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', 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 (for examples calculate the time taken for a particular event or task).	Recognise angles as a property of shape or a description of a turn. Identify right angels, recognise that two right angles make a half term, three makes three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angles. Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. Draw 2D shapes and make 3D shapes using modelling materials. Recognise 3D shapes in different orientations and describe them. --- RTP - 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. Draw polygons by joining marked points and identify parallel and perpendicular sides.	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction relating to measure. Continue to measure using appropriate tools and units, progressing to using a wider range of measures, including comparing and using mixed units (for example, 1kg and 200g) and simple equivalents of mixed units (for example, 5m = 500cm).