|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| YN | Baseline <br> Number - recite number <br> names <br> Measures - big and small <br> Geometry - recognise shapes | Number - recite number names in order, more, a lot <br> Measures - size, timebased events Geometry - size, arrangements, similarities | Number - recognise numerals, compare 2 groups Measures - length, weight, sequence timebased events | Number - recite to 7, <br> Measures - sequence time-based events Geometry - round, tall, simple patterns, positional language | Number - recite in order to 10, recognise numerals within 5 , count back from 3 , subitise $1 / 2$, count $1: 1$ to 5 , composition of numbers to 5 , link numerals and amounts | ```Number - recite to 10, recognise numerals within 5, counts back from 5, subitises to 3, Geometry - name 2D shapes Measures - language for time``` |
| YR | Baseline <br> Number - explore numbers to 5 <br> Measures - order through time of day Geometry - 2D shapes | Number secure numbers to 5, explore numbers to 10 <br> Geometry - 2D shapes, repeating patterns | Number - one more, one less, total, composition of numbers to 10 Addition / subtraction begin to use the vocabulary involved in adding and subtracting Measures - compare using height, weight, capacity | Number - compare numbers within 10 Geometry - compose and decompose shapes, continue, copy and create repeating patterns | Number - count beyond 20, 1 more or less, subitise to 5 , count in 2 s , odd and even numbers Measures - compare and order by length, weight and capacity | Number - doubling compare quantities to 10 , greater than, less than, equal to, halving, sharing, number bonds, subitise within 10 |
| Y1 | Number - Place value (up to 10), forwards, backwards, 1 more, 1 less Addition (10), part-whole model, number bonds, objects, pictorial and missing number Geometry - recognize, name and sort 2D and 3D shapes | Number - Place value (up to 20), forwards, backwards, tens and ones, 1 more, 1 less Subtraction (10), how many left, fact families, counting back, one step problems, missing number problems Measures -Compare length, measure length, compare height Time - before, after, times in the day | Number - Place value (20), compare groups and objects, order groups and numbers, use a number line <br> Addition and subtraction <br> (20) <br> Measures - measure and compare weight and mass, money - recognise and count coins | Number - Place value (50), tens and ones, 1 more, 1 less, count in 2 s , 5s <br> Addition (20) - by counting on, number bonds and subtraction not crossing and crossing 20, related facts, comparing number sentences <br> Measures - measure and compare capacity, Time hour, half hour, | Number - Place value (100), forwards and backwards, ordering, partitioning, 1 more, 1 less <br> Multiplication and division - $2 \mathrm{~s}, 5 \mathrm{~s}, 10 \mathrm{~s}$, make arrays, make doubles, equal groups, halving <br> Fractions - halves and quarters of shapes Geometry - whole, half, $3 / 4$ turns | Number - Place value (100), forwards and backwards, ordering, partitioning, 1 more, 1 less <br> Multiplication and division - problems using concrete and pictorial Measures - Money recognise and count in £5, $£ 10, £ 20$ Length/Height/ Weight, and Volume Standard measures Recap Time |


|  |  |  |  | comparing and writing time |  | Fractions - recognise, find and name half and $1 / 4$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y2 | Number and place value (50), forwards and backwards in 2 s and 5 s , compare and order, read and write <br> Addition and Subtraction <br> - facts to 20, numbers to 50, commutative law Multiplication and division - make equal groups, make arrays, divide by $2,5,10$, odd and even numbers Measures - Recognise and count coins and notes, compare money, find totals, differences, and change | Number and place value <br> - forwards and <br> backwards in $2 \mathrm{~s}, 5 \mathrm{~s}, 10 \mathrm{~s}$, read and write numbers to 100 , place value <br> Addition and subtraction <br> - number bonds, add and subtract up to 2-digit by 2-digit <br> Multiplication and <br> division - multiples of 2, <br> link multiplication and division, use arrays, multiply numbers to 10 x 10 <br> Geometry - recognise 2D and 3D shapes, count faces and vertices, make patterns <br> Fractions - recognise and find $1 / 2,1 / 4,1 / 3$, count in fractions <br> Statistics- construct tally charts, interpret and construct pictograms | Number and place value <br> - compare and order numbers to 50 , read and write numbers to 100, recognise place value Addition and subtraction <br> - add and subtract numbers to 100, doubles and halves, column addition and subtraction, check with inverse, add 3 1-digit numbers Multiplication and division - multiples of 2,5,10, inverse, multiply numbers to $10 \times 10$ <br> Geometry - compare and sort 2D and 3D, describe position, direction and movement <br> Fractions - recognise and find $1 / 2,1 / 4,1 / 3$, count in fractions <br> Statistics - construct and interpret tally charts and pictograms | Number and place value <br> - compare and order numbers to 100 , read and write numbers to 100, use place value and numbers facts to solve problems <br> Addition and subtraction <br> - add and subtract numbers to 100 , add 9 and 11, add and subtract in columns, demonstrate commutative law, find missing numbers, solve multi-step problems Multiplication and division - calculate mathematical statements for 2-, 5 - and 10-times tables, use the inverse Measures - compare, order and measure length, height, mass and capacity | Number and place value <br> - forwards and <br> backwards in $2 \mathrm{~s}, 3 \mathrm{~s}$, 5 s <br> and 10 s , compare and order numbers to 100 , use place value and number facts to solve problems <br> Addition and subtraction <br> - select strategies to add and subtract numbers, solve problems <br> Multiplication and division - multiply numbers to 20 by 10 , solve problems in contexts <br> Geometry - identify and describe properties of 2D and 3D shapes <br> Fractions - find fractions of amounts, recognise equivalences, write fractions with numbers up to 100 <br> Statistics - interpret tally charts and pictograms to find differences | Number and place value <br> - forwards and backwards in $2 \mathrm{~s}, 3 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s , compare and order numbers to 100 <br> Addition and subtraction <br> - solve problems using appropriate strategies Multiplication and division - solve problems in contexts <br> Geometry - identify 2D and 3 D shapes using mathematical language, draw lines and shapes using a ruler Measures - solve problems involving time, money - give change Measures - compare, order and measure length, height, mass capacity and temperature |
| Y3 | Number- Place Value up to 1000, find 1,10,100 more or less, compare objects and numbers, | Addition and Subtraction <br> - add and subtract numbers up to 3-digit by 3-digit, spot patterns, | Multiplication and Division - comparing statements, related calculations, multiply 2- | Multiplication and Division - divide 2-digit by 1-digit moving to exchanging and remainders, scaling | Addition, Subtraction Multiplication and Division - solve problems Measures - statistics reading tables | Fractions - reasoning and problem solving for equivalent fractions, add and subtract fractions |

$\left.\left.\begin{array}{|l|l|l|}\hline & \begin{array}{l}\text { order numbers, count in } \\ \text { 50s } \\ \text { Addition and Subtraction } \\ \text {-add and subtract up to } \\ \text { 3-digit and 2-digit } \\ \text { numbers, crossing the 10 } \\ \text { boundary } \\ \text { Statistics - Interpret } \\ \text { pictograms and bar } \\ \text { charts } \\ \text { Measures - money - } \\ \text { convert pounds and } \\ \text { pence, add and subtract } \\ \text { money, give change }\end{array} & \begin{array}{l}\text { Multiplication and } \\ \text { Division - multiply and } \\ \text { divide by 3, 4, 8 }\end{array} \\ \text { Geometry - properties of } \\ \text { shape - turns and angles, } \\ \text { right angles in shapes, } \\ \text { compare angles, draw } \\ \text { accurately }\end{array}\right\} \begin{array}{l}\text { Fractions - unit and non- } \\ \text { unit fractions, count in } \\ \text { tenths, tenths as } \\ \text { decimals, fractions on a } \\ \text { number line }\end{array}\right\}$
digit by 1-digit with
exchange Measures - length and perimeter - measure, compare, add and subtract lengths, measure and calculate perimeter
Measures - massmeasure and compare mass reading scales in kg or $g$ then mixed, add and subtract mass
Fractions - fractions of a set of objects, dividing into groups, using numerator and denominator Measures - solve problems involving different measures

## Multiplication and

 Division-11 and 12 times-table, multiply 3 numbers, factor pairs, written methods, multiply 2-digits by 1 digit, divide 2-digit by 1digit without and with remainders Fractions - equivalent fractions through diagrams and proportional reasoning, fractions greater than 1, count in fractionsGeometry - properties of shape - horizontal and vertical, parallel and perpendicular, recognise and describe 2D and 3D shapes
Fractions - equivalent fractions in pairs, using number lines, missing numerators and denominators, compare and order
Measures - time months and years, hours in a day, telling the time to 5 minutes and 1 minute

## Multiplication and

 Division - multiply and divide 3-digits by 1-digit, correspondence problemsFractions - add and subtract 2 or more fractions, subtract from whole amounts, calculate fractions of a quantity, problem solving calculate quantities Money - pounds and pence, ordering money, recognise tenths and

Fractions - add and subtract fractions Measures - time - use am, pm, 24-hour clock, find and compare durations, start and end times, measure time in seconds
Measures - capacity measure and compare capacity in ml , I and mixed, add and subtract capacity

Decimals- make a whole, write, compare, order, and round decimals, halves, and quarters Geometry- properties of shape - lines of symmetry, complete a symmetric figure, triangles, quadrilaterals Statistics - interpret charts, comparison, sum, and difference, introducing line graphs Money - estimating money, four operations

Geometry - properties of shape - recognise and describe 3D shapes, make 3D shapes, reasoning and problem solving for properties of shape
Measures - mass and capacity - reasoning and problem solving
Statistics - reasoning and problem solving

Geometry- position and direction - describe position, draw on a grid, move and describe a movement on a grid Money - revision and application through reasoning and problem solving
Measures - length, perimeter, area Revision and application through reasoning and problem solving
Measures - conversions

|  | divide by 1 and itself, multiply and divide by 6 , 6 times table and division facts <br> Measures - length and perimeter - kilometres, perimeter on a grid, perimeter of a rectangle, perimeter of rectilinear shapes | 9-times table and division <br> facts <br> Measures - area <br> What is area? Counting <br> squares, making shapes, <br> comparing area <br> Geometry - properties of shapes, identify, compare, and order angles <br> Time - time - hours, minutes, seconds, years, months, weeks, and days | Decimals - tenths on a place value grid and number line, divide 1- or 2-digits by 10 hundredths, hundredths as decimals, hundredths on a place value grid, divide 1 or 2-digits by 100 | hundredths, tenths as decimals <br> Time - analogue to digital 12- and 24-hour, conversion between units of time | Measures - money estimating money, four operations | Revision and application through reasoning and problem-solving <br> Geometry - properties of shape - revision and application through reasoning and problem solving <br> Decimals and fractions revision and application through reasoning and problem solving |
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| Y5 | Number- Roman numerals to 1,000, Numbers to 10,000, Numbers to 100,000, Powers of 10, Compare and order numbers to 100,000, Round to the nearest 10, 100 or 1,000, Round within 100,000 Four Operations - Mental strategies, add whole numbers with more than four digits, subtract whole numbers with more than four digits, round to check answers, inverse operations (addition and subtraction), multi-step addition and subtraction problems, multiples, common multiples, factors, common factors, |  <br> Percentages- find fractions equivalent to a unit and non-unit fraction, recognise equivalent fractions, convert improper fractions to mixed numbers, convert mixed numbers to improper fractions, compare and order fractions less than and greater than 1, add and subtract fractions with the same denominator, within 1 and greater than 1, to one or two mixed numbers <br> Geometry -understand and use degrees, classify angles, estimate angles, measure angles up to | Number - numbers to 1,000,000, read and write numbers to $1,000,000$, 0/100/1,000/10,000/100, 000 more or less, partition numbers to 1,000,000, number line to 1,000,000, compare and order numbers to 1,000,000, round within 1,000,000 Four Operations compare calculations, find missing numbers, understand negative numbers, count through zero in 1s, count through zero in multiples, compare and order negative numbers, find the difference, multiply up to 4-digit number by a 2-digit number, efficient |  <br> Percentages - multiply a <br> unit fraction by an integer, multiply a nonunit fraction by an integer, multiply a mixed number by an integer, calculate a fraction of a quantity, fraction of an amount, find the whole, use fractions as operators, thousandths as fractions, decimals and on a place value chart, order and compare decimals with up to 3 decimal places, understand percentages as fractions and decimals, equivalent fractions, decimals and percentages Measures - kilograms and kilometres, |  <br> Percentages - - Use <br> known facts to add and subtract decimals within <br> 1, complements to 1 , add and subtract decimals across 1 , with the same number of decimal places, subtract decimals with the same number of decimal places, add and subtract decimals with different numbers of decimal places, efficient strategies for adding and subtracting decimals, decimal sequences, multiply and divide by 10 , 100 and 1,000 , multiply and divide decimals missing values <br> Geometry - read and plot coordinates, | Consolidation and revision. |


|  | prime numbers, square numbers, cube numbers, multiply by 10,100 and 1,000 , divide by 10,100 and 1,000 , multiples of 10,100 and 1,000 , multiply up to a 4-digit number by a 1-digit number, short division, divide a 4-digit number by a 1-digit number, divide with remainders Measures - Perimeter of rectangles, perimeter of rectilinear shapes, perimeter of polygons, area of rectangles, area of compound shapes, estimate area | 180, draw lines and angles accurately, calculate angles around a point, calculate angles on a straight line, lengths and angles in shapes Statistics - draw line graphs, read and interpret line graphs, read and interpret tables, two-way tables, read and interpret timetables | division, solve problems with multiplication and division <br> Geometry - regular and irregular polygons, 3-D shapes | millimetres and millilitres, convert units of length, convert between metric and imperial units, convert units of time, calculate with timetables | problem solving with coordinates, translation, translation with coordinates, lines of symmetry, reflection in horizontal and vertical lines <br> Measures - cubic centimetres, compare volume, estimate volume, estimate capacity |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Y6 | Number - compare and order any number to 10 million, round any number, negative numbers <br> Four operations - Order of operations, multiply by $10,100,1000$, add and subtract integers, multiply up to 4-digit number by 2-digit number, short division, division using factors, long division up to 4-digit by 2-digit including with remainders and rounding, common factors and | Algebra- find a rule - one and two steps, forming expressions, substitution, formulae, forming equations, find enumerate possibilities <br> Fractions - multiply fractions by integers and fractions, divide fractions by integers, four rules with fractions, fraction of an amount- find the whole Ratio - using ratio language, ratio and fractions, introducing the | Number - Solving problems using rounding, comparing, negative numbers <br> Four operations- Solve multistep problems <br> Fractions, decimals, percentages -develop and practise Autumn's concepts <br> Algebra - Solve simple one-step and two-step equations, find pairs of values, enumerate possibilities <br> Ratio - Using scale factors, calculating scale | FDP- Solve problems involving fractions, decimals and percentages Geometry - Draw shapes accurately, draw nets of 3-D shapes <br> Statistics -Solve problems involving mean, pie charts and line graphs | Revision, application and problem solving <br> SATS Practise | Mathematical Investigations |

multiples, primes to 100, squares and cubes, order of operations, mental calculations and estimations, reason from known facts
Fractions -Simplify fractions, fractions on a number line, compare and order with denominator and numerator, add and subtract fractions with denominators that are and are not the same multiple, add and subtract mixed numbers Decimals \& Percentages Three decimal places, multiply and divide by 10 , 100 and 1,000 , multiply and divide decimals by integers, division to solve problems, decimals as fractions, fractions to decimals, fractions to percentages, equivalent FDP, order FDP, percentage of an amount, percentages - missing values

## ratio symbol, calculating ratio <br> Measures - converting units - Metric measures

 Convert metric measures Calculate with metric measures Miles and kilometers Imperial measures Geometry - position and direction - the first quadrant, four quadrants, translations, reflections Geometry - Properties of shapeMeasure with a protractor, introduce angles, calculate angles, vertically opposite angles, angles in a triangle special cases and missing angles, angles in special quadrilaterals, angles in regular polygons, measure- protractor, shapes - same area and perimeter, area of triangles and parallelograms, volume counting cubes, volume of cuboid, circles Statistics - Read and interpret line graphs and dual bar charts, draw line graphs, use line graphs to solve problems, circles,
factors, ratio and proportion problems Measures - Shapes same area, area and perimeter, area of a triangles, area of parallelogram, volume counting cubes, volume of a cuboid

|  |  | read and interpret pie <br> charts, pie charts with <br> percentages, draw pie <br> charts, mean |  |  |
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