The maths gems of fluency, reasoning and problem solving will be visited within each small step wherever possible.
The Key Knowledge for maths is situated approximately where it is expected to be taught. Teachers should use their professional experience to make any necessary changes in terms of when, where and how each small step of knowledge is taught.

|  | EYFS |
| :---: | :---: |
| Autumn | Subitising: <br> I can perceptually subitise within 3 . <br> I can identify sub-groups in larger arrangements. <br> I can create my own patterns for numbers within 4. <br> I can use my fingers to represent quantities which I can subitise. <br> I can experience subitising in a range of contexts, including temporal patterns made by sounds. <br> Cardinality, ordinality and counting <br> I know how to relate the counting sequence to cardinality, seeing that the last number spoken gives the number in the entire set. I have experienced a wide range of opportunities to develop my knowledge of the counting sequence, including through rhyme and song. <br> I have experienced a wide range of opportunities to develop 1:1 correspondence, including by coordinating movement and counting. <br> I have been given opportunities to develop an understanding that anything can be counted, including actions and sounds. <br> I know a range of strategies which support accurate counting. <br> Composition <br> I know that all <br> numbers can be made of 1 s . <br> I know how to compose my <br> own collections within 4. <br> Comparison <br> I understand that sets can be compared according to a range of attributes, including by their numerosity. <br> I can use the language of comparison, including 'more than' and 'fewer than'. <br> I can compare sets 'just by looking'. <br> Subitising: <br> I can subitise within 5, perceptually and conceptually, depending on the arrangements. <br> Cardinality, ordinality and counting <br> I know how to continue to develop my counting skills. <br> I know how to explore the cardinality of 5 , linking this to dice patterns and 5 fingers on 1 hand. <br> I know how to count beyond 5 . <br> I can recognise some numerals, relating these to quantities I can subitise and count. <br> Composition <br> I know how to explore the concept of 'wholes' and 'parts' by looking at a range of objects that are composed of parts, some of which can be taken apart and some of which cannot. <br> I know how to <br> explore the composition of numbers within 5 . <br> Comparison <br> I can compare sets using a variety of strategies, including 'just by looking', by subitising and by matching. <br> I can compare sets by matching, seeing that when every object in a set can be matched to one in the other set, they contain the same number and are equal amounts. <br> Shape, Space and Measure <br> I know how to find and match objects which are the same. <br> I know that collections can be sorted into sets based on attributes such as colour, size or shape. <br> I know the same collection can be sorted in different ways. <br> I know how to come up with my own criteria for sorting. <br> I know that objects can be compared and ordered based on their size. <br> I can use language such as big and little, tall and short to describe a range of objects in the classroom. <br> I can copy, continue and create my own simple repeating patterns. <br> I know that circles have 1 curved side. <br> I know that triangles have 3 straight sides. <br> I can recognise a circle and a triangle. <br> I can build my own circles and triangles. |

I know that squares and rectangles have 4 straight sides and 4 corners.
I can recognise these shapes on everyday items in the classroom and outside.
I can build my own squares and rectangles.
I can recognise squares and rectangles in a variety of different sizes and orientations.
I can spot other shapes with 4 sides.
I can talk about night and day and order key events in my daily life.
I can use appropriate language to describe when events happen (eg. day, night, morning, afternoon, before, after, today, tomorrow).
I know how to measure time in simple ways.

Spring Subitising
I can confidently subitise by continuing to explore patterns within 5 , including structured and random arrangements.
I can explore a range of patterns made by some numbers greater than 5, including structured patterns in which 5 is a clear part.
I can continue to match arrangements to finger patterns.

## Cardinality, ordinality and counting

I can verbally count to 20 and beyond. I know how to develop my object counting skills, using a range of strategies to develop accuracy.
I know how to
link counting to cardinality, including using my fingers to represent quantities between 5 and 10. I can order numbers, linking cardinal and ordinal representations of number.

## Composition

I can continue to explore the composition of 5 and practise recalling 'missing' or 'hidden' parts for 5.
I can explore the composition of 6 , linking this to familiar patterns, including symmetrical patterns I am beginning to see that numbers within 10 can be composed of ' 5 and a bit'.

## Comparison

I can continue to compare sets using the language of comparison.
I can play games which involve comparing sets.
I can continue to compare sets by matching, identifying when sets are equal.
I can explore ways of making unequal sets equal

## Subitising

I can explore symmetrical patterns, in which each side is a familiar pattern, linking this to 'doubles'.

## Cardinality, ordinality and counting

I can continue to consolidate my understanding of cardinality, working with larger numbers within 10 I am becoming more familiar with the counting pattern beyond 20.

## Composition

I can explore the composition of odd and even numbers, looking at the 'shape' of these numbers I am beginning to link even numbers to doubles
I am beginning to explore the composition of numbers within 10.

## Comparison

I can compare numbers, reasoning about which is more, using both an understanding of the 'howmanyness' of a number, and its position in the number system.

## Shape, Space and Measure

I know how to make direct comparisons of weight-saying which one feels heaviest and checking using scales.
I can use the language of heavy, heavier than, heaviest, light, lighter than, lightest to compare items.
I know that larger items are not always heavy and small items are not always light.
I know how to show nearly full, half full, nearly empty and empty.
I know how to explore capacity using different materials such as water, sand, rice and beads.
I know how to make direct comparisons by pouring from one container to another.
I can use the language of tall, thin, narrow, wide and shallow.
I know how to make indirect comparisons by counting how many pots it takes to fill one container.
I can use the correct language to describe length and height.
I know how to use specific vocabulary relating to length (longer, shorter), height (taller, shorter) and breadth (wider, narrower).
I can make direct and indirect comparisons.
I can order and sequence important times in my day using language such as now, before, later,
soon, after, then and next to describe when events happen.
I can recognise that regular events happen on the same day each week and can use the vocabulary 'yesterday', 'today', and 'tomorrow' to describe when events happen.
I can describe significant events in my life and talk about events I am looking forward to. I know that some processes, such as growing vegetables, take a longer time.

I can explore and manipulate 3D shapes in my play.
I know which 3D shapes stack and which ones roll and can explain why.
I know the name of some 3D shapes.
I can talk about the similarities and differences between the shapes.
I can sort the shapes according to what I notice.
I can explore more complex patterns which use items more than once in each repeat (for example,
ABB, AAB, AABB, AA,BBB).
I can say patterns aloud.
I can create patterns around the edge of shapes as well as in straight lines.

Subitising
I can continue to practise increasingly familiar subitising arrangements, including those which expose '1 more' or 'doubles' patterns
I can use my subitising skills to enable me to identify when patterns show the same number but in a different arrangement, or when patterns are similar but have a different number I know how to subitise structured and unstructured patterns, including those which show numbers within 10, in relation to 5 and 10
I can be encouraged to identify when it is appropriate to count and when groups can be subitised.

## Cardinality, ordinality and counting

I can continue to develop my
verbal counting to 20 and beyond, including counting from different starting numbers I can continue to develop my
confidence and accuracy in both verbal and object counting.

## Composition

I know how to explore the composition of 10.

## Comparison

I can order sets of objects, linking this to my understanding of the ordinal number system I know how to consolidate my understanding of concepts previously taught through working in a variety of contexts and with different numbers.

## Shape, Space and Measure

I can complete jigsaws and shape puzzles.
I can select and rotate shapes to fill a given space.
I can explain why I chose a particular shape and why a different shape wouldn't fit.
I can match arrangements of shapes and can use positional language to describe where the shapes are in relation to one another.
I can select shapes to complete picture boards or tangram outlines.
I know that shapes can be combined and separated to make new shapes.
I can investigate how many different ways a given shape can be built using smaller shapes.
I can explore the different shapes I can make by combining a set of shapes in different ways.

I can replicate simple constructions, models, real places and places in stories.
I know that I can look at these replications from different positions.
I can use positional language to describe where objects are in relation to other items.
I can play barrier games.
I can follow simple verbal instructions as I build.
I can explore and investigate relationships between numbers and shapes.
I can use Cuisenaire rods, pattern blocks and the unit construction blocks to explore these relationships.
I can copy, continue and create a widening range of repeating patterns and symmetrical constructions.
I know that we can make maps and plans to represent places and can use them to see where things are in relation to other things.
I can look at and discuss different maps.
I can create my own maps to represent the models I build, familiar places and places in stories.

|  | Year 1 |
| :---: | :---: |
| Autumn | Y1 AUTUMN BLOCK 1 Number: Place Value (within 10) |
|  | Sort objects |
|  | Count objects |
|  | Count objects from a larger group |
|  | Represent objects |
|  | Recognise numbers as words |
|  | Count on from any number |
|  | 1 more |
|  | Count backwards within 10 |
|  | 1 less |
|  | Compare groups by matching |
|  | Fewer, more, same |
|  | Less than, greater than, equal to |
|  | Compare number |
|  | Order objects and numbers |
|  | The number line |
|  | Y1 AUTUMN BLOCK 2 Number: Addition and Subtraction (within 10) |
|  | Introduce parts and wholes |
|  | Part-whole model |
|  | Write number sentences |
|  | Fact families - addition facts |
|  | Number bonds within 10 |
|  | Systematic number bonds within 10 |
|  | Number bonds to 10 |
|  | Addition - add together |
|  | Addition - add more |
|  | Addition problems |
|  | Find a part |
|  | Subtraction - find a part |
|  | Fact families - the eight facts |
|  | Subtraction - take away/crossing out (How many left?) |
|  | Subtraction - take away (How many left?) |
|  | Subtraction on a number line |
|  | Add or subtract 1 or 2 |
|  | Y1 AUTUMN BLOCK 3 Geometry: Shape |
|  | Recognise and name 3-D shapes |
|  | Sort 3-D shapes |


|  | Recognise and name 2-D shapes <br> Sort 2-D shapes <br> Patterns with 2-D and 3-D shapes |
| :---: | :---: |
| Spring | Y1 SPRING BLOCK 1 Number: Place Value (within 20) |
|  | Count within 20 |
|  | Understand 10 |
|  | Understand 11, 12 and 13 |
|  | Understand 14, 15 and 16 |
|  | Understand 17, 18 and 19 |
|  | Understand 20 |
|  | 1 more and 1 less |
|  | The number line to 20 |
|  | Use a number line to 20 |
|  | Estimate on a number line to 20 |
|  | Compare numbers to 20 |
|  | Order numbers to 20 |
|  | Y1 SPRING BLOCK 2 Number: Addition and Subtraction (within 20) |
|  | Add by counting on within 20 |
|  | Add ones using number bonds |
|  | Find and make number bonds to 20 |
|  | Doubles |
|  | Near doubles |
|  | Subtract ones using number bonds |
|  | Subtraction - counting back |
|  | Subtraction - finding the difference |
|  | Related facts |
|  | Missing number problems |
|  | Y1 SPRING BLOCK 3 Number: Place Value (within 50) |
|  | Count from 20 to 50 |
|  | 20, 30, 40 and 50 |
|  | Count by making groups of tens |
|  | Groups of tens and ones |
|  | Partition into tens and ones |
|  | The number line to 50 |
|  | Estimate on a number line to 50 |
|  | 1 more, 1 less |
|  | Y1 SPRING BLOCK 4 Measurement: Length and Height |
|  | Compare lengths and heights |
|  | Measure length using objects |


|  | Measure length in centimetres |
| :---: | :---: |
|  | Y1 SPRING BLOCK 5 Measurement: Mass and Volume |
|  | Heavier and lighter |
|  | Measure mass |
|  | Compare mass |
|  | Full and empty |
|  | Compare volume |
|  | Measure capacity |
|  | Compare capacity |
| Summer | SUMMER BLOCK 1 Number: Multiplication and Division |
|  | Count in 2 s |
|  | Count in 10s |
|  | Count in 5 s |
|  | Recognise equal groups |
|  | Add equal groups |
|  | Make arrays |
|  | Make doubles |
|  | Make equal groups - grouping |
|  | Make equal groups - sharing |
|  | SUMMER BLOCK 2 Number: Fractions |
|  | Recognise a half of an object or a shape |
|  | Find a half of an object or a shape |
|  | Recognise half of a quantity |
|  | Find a half of a quantity |
|  | Recognise a quarter of an object or a shape |
|  | Find a quarter of an object or a shape |
|  | Recognise a quarter of a quantity |
|  | Find a quarter of a quantity |
|  | SUMMER: BLOCK 3 Geometry: Position and Direction |
|  | Describe turns |
|  | Describe position - left and right |
|  | Describe position - forwards and backwards |
|  | Describe position - above and below |
|  | Ordinal numbers |
|  | SUMMER: BLOCK 4 Number: Place Value (within 100) |
|  | Count from 50 to 100 |
|  | Tens to 100 |
|  | Partition into tens and ones |
|  | The number line to 100 |


|  | 1 more, 1 less <br> Compare numbers with the same number of tens <br> Compare any two numbers <br> SUMMER: BLOCK 5 Measurement: Money <br> Unitising <br> Recognise coins <br> Recognise notes <br> Count in coins <br> SUMMER: BLOCK 6 Measurement: Time <br> Before and after <br> Days of the week <br> Months of the year <br> Hours, minutes and seconds <br> Tell the time to the hour <br> Tell the time to the half hour |
| :---: | :---: |
|  | Year 2 |
| Autumn | Y2 AUTUMN BLOCK 1 Number: Place Value <br> Numbers to 20 <br> Count objects to 100 by making 10 s <br> Recognise tens and ones <br> Use a place value chart <br> Partition numbers to 100 <br> Write numbes to 100 in words <br> Flexibly partition numbers to 100 <br> Write numbers to 100 in expanded form <br> 10 s on the number line to 100 <br> 10s and 1s on the number line to 100 <br> Estimate numbers on a number line <br> Compare objects <br> Compare numbers <br> Order objects and numbers <br> Count in $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s <br> Count in 3s <br> Y2 AUTUMN BLOCK 2 Number: Addition and Subtraction <br> Bonds to 10 <br> Fact families - addition and subtraction bonds within 20 <br> Related facts <br> Bonds to 100 (tens) <br> Add and subtract 1 s |




|  |  |
| :---: | :---: |
|  | Find a half |
|  | Recognise a quarter |
|  | Find a quarter |
|  | Recognise a third |
|  | Find a third |
|  | Find the whole |
|  | Unit fractions |
|  | Non-unit fractions |
|  | Recognise the equivalence of a half and two-quarters |
|  | Recognise three-quarters |
|  | Find three-quarters |
|  | Count in fractions up to a whole |
|  | SUMMER BLOCK 2 Measurement: Time |
|  | O'clock and half past |
|  | Quarter past and quarter to |
|  | Tell the time past the hour |
|  | Tell the time to the hour |
|  | Tell the time to 5 minutes |
|  | Minutes in an hour |
|  | Hours in a day |
|  | SUMMER BLOCK 3 Statistics |
|  | Make tally charts |
|  | Tables |
|  | Block diagrams |
|  | Draw pictograms (1-1) |
|  | Interpret pictograms (1-1) |
|  | Draw pictograms (2, 5 and 10) |
|  | Interpret pictograms (2, 5 and 10) |
|  | SUMMER BLOCK 4 Geometry: Position and direction |
|  | Language of position |
|  | Describe movement |
|  | Describe turns |
|  | Describe movement and turns |
|  | Shape patterns with turns |
|  | Year 3 |
| Autumn | Y3 AUTUMN BLOCK 1 Number: Place Value |
|  | Represent numbers to 100 |
|  | Partition numbers to 100 |

Number line to 100

Hundreds

Represent numbers to 1000
Partition numbers to 1000

Flexible partitioning of numbers to 1000
Hundreds, tens and ones
Find 1, 10 or 100 more or less
Number line to 1000
Estimating on a number line to 1000
Compare numbers to 1000
Order numbers to 1000
Count in 50s
Y3 AUTUMN BLOCK 2 Number: Addition and Subtraction
Apply number bonds within 10
Add and subtract 1 s
Add and subtract 10s
Add and subtract 100s
Spot the pattern
Add 1s across a 10
Add 10s across a 100
Subtract 1 s across a 10
Subtract 10s across a 100
Make connections
Add two numbers (no exchange)
Subtract two numbers (no exchange)
Add two numbers (across a 10)
Add two numbers (across a 100)
Subtract two numbers (across a 10)
Subtract two numbers (across a 100)
Add 2-digit and 3-digit numbers
Subtract a 2-digit number from a 3-digit number
Complements to 100
Estimate answers

Inverse operations
Mak decisions

## Y3 AUTUMN: BLOCK 3 Number: Multiplication and Division A

Multiplication - equal groups
Use arrays


|  | Compare and order unit fractions <br> Understand the numerators of non-unit fractions <br> Understand the whole <br> Compare and order non-unit fractions <br> Fractions and scales <br> Fractions on a number line <br> Count in fractions on a number line <br> Equivalent fractions on a number line <br> Equivalent fractions as bar models <br> Y3 SPRING BLOCK 4 Measurement: Mass and Capacity <br> Use scales <br> Measure mass in grams <br> Measure mass in kilograms and grams <br> Equivalent masses (kilograms and grams) <br> Compare mass <br> Add and subtract mass <br> Measure capacity and volume in millilitres <br> Measure capacity and volume in litres and millilitres <br> Equivalent capacities and volumes (litres and millilitres) <br> Compare capacity and volume |
| :---: | :---: |
| Summer | Y3 SUMMER BLOCK 1 Number: Fractions B <br> Add fractions <br> Subtract fractions <br> Partition the whole <br> Unit fractions of a set of objects <br> Non-unit fractions of a set of objects <br> Reasoning with fractions of an amount <br> Y3 SUMMER BLOCK 2 Measurement: Money <br> Pounds and pence <br> Convert pounds and pence <br> Add money <br> Subtract money <br> Find change <br> Y3 SUMMER BLOCK 3 Measurement: Time <br> Roman numerals to 12 <br> Tell the time to 5 minutes <br> Tell the time to the minute <br> Read time on a digital clock |



|  | Order numbers to 10000 |
| :---: | :---: |
|  | Roman numerals |
|  | Round to the nearest 10 |
|  | Round to the nearest 100 |
|  | Round to the nearest 1000 |
|  | Round to the nearest 10000 |
|  | Y4 AUTUMN BLOCK 2 Number: Addition and Subtraction |
|  | Add and subtract 1s, 10s, 100s and 1,000s |
|  | Add up to two 4-digit numbers - no exchange |
|  | Add two 4-digit numbers - one exchange |
|  | Add two 4-digit numbers - more than one exchange |
|  | Subtract two 4-digit numbers - no exchange |
|  | Subtract two 4-digit numbers - one exchange |
|  | Subtract two 4-digit numbers - more than one exchange |
|  | Efficient subtraction |
|  | Estimate answers |
|  | Checking strategies |
|  | Y4 AUTUMN BLOCK 3 Measurement: Area |
|  | What is area? |
|  | Counting squares |
|  | Make shapes |
|  | Compare area |
|  | Y4 AUTUMN BLOCK 4 Number: Multiplication and Division A |
|  | Multiples of 3 |
|  | Multiply and divide by 6 |
|  | 6 times-table and division facts |
|  | Multiply and divide by 9 |
|  | 9 times-table and division facts |
|  | The 3, 6 and 9 times-tables |
|  | Multiply and divide by 7 |
|  | 7 times-table and division facts |
|  | 11 times-table and division facts |
|  | 12 times-table and division facts |
|  | Multiply by 1 and 0 |
|  | Divide by 1 and itself |
|  | Multiply three numbers |
| Spring 1 | Y4 SPRING BLOCK 1 Number: Multiplication and Division B |
|  | Factor pairs |
|  | Use factor pairs |

Mulitply by 10
Multiply by 100
Divide by 10
Divide by 100
Related facts - multiplication and division
Informal written methods for multiplication
Multiply a 2 -digit number by a 1 -digit number
Mulitply a 3 -digit number by a 1 -digit number
Divide a 2 -digit number by a 1 -digit number (1)
Divide a 2 -digit number by a 1 -digit number (2)
Divide a 3 -digit number by a 1 -digit number
Correspondence problems
Efficient multiplication

## Y4 SPRING BLOCK 2 Measurement: Length and Perimeter

Measure in kilometres and metres
Equivalent lengths (kilometres and metres)
Perimeter on a grid
Perimeter of a rectangle
Perimeter of rectilinear shapes
Find missing lengths in rectilinear shapes
Calculate perimeter of rectilinear shapes
Perimeter of regular polygons
Perimeter of polygons

## Y4 SPRING BLOCK 3 Number: Fractions

Understand the whole
Count beyond 1
Partition a mixed number
Number lines with mixed numbers
Compare and order mixed numbers
Understand improper fractions
Convert mixed numbers to improper fractions
Convert improper fractions to mixed numbers
Equivalent fractions on a number line
Equivalent fraction families
Add two or more fractions
Add fractions and mixed numbers
Subtract two fractions
Subtract from whole amounts
Subtract from mixed numbers

|  | Y4 SPRING BLOCK 4 Number: Decimals A <br> Tenths as fractions <br> Tenths as decimals <br> Tenths on a place value chart <br> Tenths on a number line <br> Divide a 1-digit number by 10 <br> Divide a 2-digit number by 10 <br> Hundredths as fractions <br> Hundredths as decimals <br> Hundredths on a place value chart <br> Divide a 1- or 2-digit number by 100 |
| :---: | :---: |
| Summer | Y4 SUMMER BLOCK 1 Number: Decimals B <br> Make a whole with tenths <br> Make a whole with hundredths <br> Partition decimals <br> Flexibly partition decimals <br> Compare decimals <br> Order decimals <br> Round to the nearest whole number <br> Halves and quarters as decimals <br> Y4 SUMMER BLOCK 2 Measurement: Money <br> Write money using decimals <br> Convert between pounds and pence <br> Compare amounts of money <br> Estimate with money <br> Calculate with money <br> Solve problems with money <br> Y4 SUMMER BLOCK 3 Measurement: Time <br> Years, months, weeks and days <br> Hours, minutes and seconds <br> Convert between analogue and digital times <br> Convert to the 24-hour clock <br> Convert from the 24 -hour clock <br> Y4 SUMMER BLOCK 4 Geometry: Shape <br> Understand angles as turns <br> Identify angles <br> Compare and order angles <br> Triangles |




Divide with remainders
Efficient division
Solve problems with multiplication and division

## Y5 SPRING BLOCK 2 Number: Fractions B

Multiply a unit fraction by an integer
Multiply a non-unit 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

## Y5 SPRING BLOCK 3 Number: Decimals and Percentages

Decimals up to 2 decimal places
Equivalent fractions and decimals (tenths)
Equivalent fractions and decimals (hundredths)
Equivalent fractions and decimals
Thousandths as fractions
Thousandths as decimals
Thousandths on a place value chart
Order and compare decimals (same number of decimal places)
Order and compare any decimals with up to 3 decimal places
Round to the nearest whole number
Round to 1 decimal place
Understand percentages
Percentages as fractions
Percentages as decimals
Equivalent fractions, decimals and percentages
Y5 SPRING BLOCK 4 Measurement: Perimeter and Area
Perimeter of rectangles
Perimeter of rectilinear shapes
Perimeter of polygons
Area of rectangles
Area of compound shapes
Estimate area
Y5 SPRING BLOCK 5 Statistics
Draw line graphs
Read and interpret line graphs
Read and interpret tables
Two-way tables

|  | Read and interpret timetables |
| :---: | :---: |
| Summer | Y5 SUMMER BLOCK 1 Geometry: Shape |
|  | Understand and use degrees |
|  | Classify angles |
|  | Estimate angles |
|  | Measure angles up to $180^{\circ}$ |
|  | Draw lines and angles accurately |
|  | Calculate angles around a point |
|  | Calculate angles on a straight line |
|  | Lengths and angles in shapes |
|  | Regular and irregular polygons |
|  | 3-D shapes |
|  | Y5 SUMMER BLOCK 2 Geometry: Position and direction |
|  | Read and plot coordinates |
|  | Problem solving with coordinates |
|  | Translation |
|  | Translation with coordinates |
|  | Lines of symmetry |
|  | Reflection in horizontal and vertical lines |
|  | Y5 SUMMER BLOCK 3 Number: Decimals |
|  | Use known facts to add and subtract decimals within 1 |
|  | Complements to 1 |
|  | Add and subtract decimals across 1 |
|  | Add decimals with the same number of decimal places |
|  | Subtract decimals with the same number of decimal places |
|  | Add decimals with different numbers of decimal places |
|  | Subtract decimals with different numbers of decimal places |
|  | Efficient strategies for adding and subtracting decimals |
|  | Decimal sequences |
|  | Multiply by 10, 100 and 1000 |
|  | Divide by 10, 100 and 1000 |
|  | Multiply and divide decimals - missing values |
|  | Y5 SUMMER BLOCK 4 Number: Negative Numbers |
|  | Understand negative numbers |
|  | Count through zero in 1s |
|  | Count through zero in multiples |
|  | Compare and order negative numbers |
|  | Find the difference |
|  | Y5 SUMMER BLOCK 5 Measurement: Converting |


|  | units <br> Kilograms and kilometres <br> Millimetres and millilitres <br> Convert units of length <br> Convert between metric and imperial units <br> Convert units of time <br> Calculate with timetables <br> Y5 SUMMER BLOCK 6 Measurement: Volume <br> Cubic centimetres <br> Compare volume <br> Estimate volume <br> Estimate capacity |
| :---: | :---: |
|  | Year 6 |
| Autumn | Y6 AUTUMN BLOCK 1 Number: Place Value <br> Numbers to 1000000 <br> Numbers to 10000000 <br> Read and write numbers to 10000000 <br> Powers of 10 <br> Number line to 10000000 <br> Compare and order any integers <br> Round any integers <br> Negative numbers |
|  | Y6 AUTUMN BLOCK 2 Number: Addition, Subtraction, Multiplication and Division |
|  | Add and subtract integers <br> Common factors <br> Common multiples <br> Rules of divisibility <br> Primes to 100 <br> Square and cube numbers <br> Multiply up to a 4-digit number by a 2-digit number <br> Solve problems with multiplication <br> Short division <br> Division using factors <br> Introduction to long division <br> Long division with remainders <br> Solve problems with division <br> Solve multi-step problems <br> Order of operations <br> Mental calculations and estimation <br> Reason from known facts |



## Substitution

Formulae
Form equations
Solve 1-step equations
Solve 2-step equations
Find pairs of values
Solve problems with two unknowns

## Y6 SPRING BLOCK 3 Number: Decimals

Place value within 1

Place value - integers and decimals

Round decimals

Add and subtract decimals
Multiply by 10, 100 and 1000
Divide by 10, 100 and 1000
Multiply decimals by integers
Divide decimals by integers
Multiply and divide decimals in context

## Y6 SPRING BLOCK 4 Number: Fractions, Decimals and

 PercentagesDecimal and fraction equivalents
Fractions as division
Understand percentages
Fractions to percentages
Equivalent fractions, decimals and percentages
Order fractions, decimals and percentages
Percentage of an amount - one step
Percentage of an amount - multi-step
Percentages - missing values
Y6 SPRING BLOCK 5 Measurement: Area, Perimeter and Volume

Shapes - same area
Area and perimeter
Area of a triangle - counting squares
Area of a right-angled triangle
Area of any triangle
Area of a parallelogram
Volume - counting cubes
Volume of a cuboid

## Y6 SPRING BLOCK 6 Statistics

Line graphs
Dual bar charts


