EYFS Maths' Pathway (WRM)

Getting to know you

Opportunities for settling in, introducing the areas of provision and getting to know the children.

Key times of day, class routines. Exploring the continuous provision inside and out. Where do things belong? Positional language.

Just Like Me

- Number: Match and sort, Compare amounts
- Measure, Shape and Spatial Thinking: Compare size, mass & capacity, Exploring pattern

It's Me 1, 2, 3

- Representing 1, 2 & 3, Comparing 1, 2 & 3, Composition of 1, 2 & 3
- Circles and triangles, Positional language

Light and Dark

- Representing numbers to 5. One more and less.
- Shapes with 4 sides. Time

Alive in 5

- Introducing Zero, Comparing Numbers to 5, Composition of 4 & 5
- Compare Mass (2), Compare Capacity (2)

Growing 6, 7, 8

- 6, 7 & 8, Making Pairs, Combining 2 Groups
- Length & Height, Time

Building 9 and 10

- 9 & 10, Comparing Numbers to 10, Bonds to 10
- 3d-Shape Pattern (2)

To 20 and beyond!

- Building Numbers Beyond 10, Counting Patterns Beyond 10
- Spatial Reasoning (1) Match, Rotate, Manipulate

First, then, now

- Adding More, Taking Away
- Spatial Reasoning (2) Compose and Decompose

Find my pattern

- Doubling, Sharing & Grouping, Even and Odd
- Spatial Reasoning (3) Visualise and Build

On the move

- Deepening Understanding, Patterns and Relationships
- Spatial Reasoning (4) Mapping

New

Number and Place Value	Addition and Subtraction	Multiplication and Division	Measure	Geometry (position and direction)	Geometry (Properties of shape)	Fractions	General/problem solving.
Number One, two, three to twenty and beyond. None Count on/up/to/from/down Before, after More, less, many, few, fewer, fewest, smaller, smallest Equal to, the same as Odd, even Digit Numeral Compare Order Size Value Between, halfway between	Number line Add, more, plus, make, sum, total, altogether Double Half, halve Equals, is the same (including equals sign) How many more to make…? How many more is,,, then,,,? How much more is…? Subtract, take away, minus.	Odd, even Double, halve Share, share equally Group in pairs Equal groups of Divide	Full, half, empty Holds Container Weigh, weighs, balance Heavy, heavier, heaviest, light, lighter, lightest Scales Time Days of the week: Monday, Tuesday etc. Seasons: Spring, Summer, Autumn, Winter Days, week, month, year, weekend Birthday, holiday Morning, afternoon, evening, night Bedtime,	Over, under, underneath, above, below, top, bottom, side On, in, outside, inside In front, behind Front, back Before, after Beside, next to Middle Up, down, forwards, backwards. Sideways Close, far Through Towards, away from Side, roll, turn	Sort Cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square Shape Flat, curved, straight, round Solid Corner Face, side Make, build, draw	Whole Equal One half	Listen, join in Say, think, imagine, remember Start from Look at, point to Put What comes next? Find, use, make, build Tell me, describe, pick out, talk about, explain, show me Read, write Tick, draw a line, ring Cost Count, work out Number line, number track, number square, number cards

Year 1 Pathway Autumn

Block 1 Number
Number and Place Value within 10.
Step 1 sort objects.
Step 2 count objects.
Step 3 count objects from a larger group.
Step 4 represent objects.
Step 5 recognise numbers in words.
Step 6 count on from any number.
Step 7 1 more.
Step 8 count backwards within 10.
Step 9 1 less
Step 10 Compare groups by matching
Step 11 Fewer, more, same
Step 12 Less than, greater than, equal to
Step 13 Compare numbers
Step 14 Order objects and numbers
Step 15 The number line

Place Value

Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number

Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least

Compare numbers using <, > and = signs

Read and write numbers from 1 to 20 in numerals and words

Block 2 Number
Addition and Subtraction (within 10)
Step 1 Introduce parts and wholes
Step 2 Part-whole model
Step 3 Write number sentences
Step 4 Fact families – addition facts
Step 5 Number bonds within 10
Step 6 Systematic number bonds within 10
Step 7 Number bonds to 10
Step 8 Addition – add together
Step 9 Addition – add more
Step 10 Addition problems
Step 11 Find a part
Step 12 Subtraction – find a part
Step 13 Fact families – the eight facts
Step 14 Subtraction – take away/cross out (How many left?)
Step 15 Take away (How many left?)
Step 16 Subtraction on a number line
Step 17 Add or subtract 1 or 2

Addition and Subtraction

Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer)

Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs

Represent and use number bonds and related subtraction facts within 20

Add and subtract 1-digit and 2-digit numbers to 20, including zero

Block 3 Shape
Geometry
Step 1 Recognise and name 3-D shapes
Step 2 Sort 3-D shapes
Step 3 Recognise and name 2-D shapes
Step 4 Sort 2-D shapes
Step 5 Patterns with 2-D and 3-D shape

Shape

Recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles]; 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]

Number and Place value	Addition and Subtraction	Multiplication and division	Measure	Position and direction	Shape	Fractions	Problem solving
Zero, one, two, three to twenty and beyond None Count on/up/to/down/ From Before/less Many, fewer, least, smallest, greatest, Equal to, same as Odd, even Units, ones, tens Compare Value	Number bonds, number line Add, more, plus, make, sum, total, altogether Inverse Equals Difference between, How many more make…? How much more is…? Subtract, take away, minus How many fewer is…? How much less is…?	Odd, even How many times Lots of, groups of Multiply, multiple of Repeated addition, Array, row Double, halve Share, share equally Equal groups of Divide, divided by, left over	Full, half, empty Holds Container Weigh, balances Heavy, heavier, heaviest Light, lighter, lightest Days of the week Seasons Day, week ,month, year, weekend Morning, afternoon, evening Hour, o clock, half past	Over, under, underneath, above, below, top, bottom On, in, outside, inside Around, in front, behind Front, back, before, after Beside, next to, opposite, apart Left, right, up, down, forwards, backwards Along, through Slide, roll, turn, Whole turn, half turn	Group, sort Cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square Shape Flat, curved, straight, round Hollow, solid Corner Face, side, edge	Whole Equal Parts Four equal parts One half, two halves A quarter Two quarters	Say Think Start from, start with Look at, point to, place Arrange, rearrange What comes next? Carry on, continue, repeat Find, choose, collect Shade, colour, record Describe Explain Prove it

Year 2 Pathway Autumn

Block 1 Number

Place Value

Step 1 Numbers to 20
Step 2 Count objects to 100 by making 10s
Step 3 Recognise tens and ones
Step 4 Use a place value chart
Step 5 Partition numbers to 100
Step 6 Write numbers to 100 in words
Step 7 Flexibly partition numbers to 100
Step 8 Write numbers to 100 in expanded form
Step 9 10s on the number line to 100
Step 10 10s and 1s on the number line to 100
Step 11 Estimate numbers on a number line
Step 12 Compare objects
Step 13 Compare numbers
Step 14 Order objects and numbers
Step 15 Count in 2s, 5s and 10s
Step 16 Count in 3

Place Value

Read and write numbers from 1 to 20 in numerals and words (Y1)

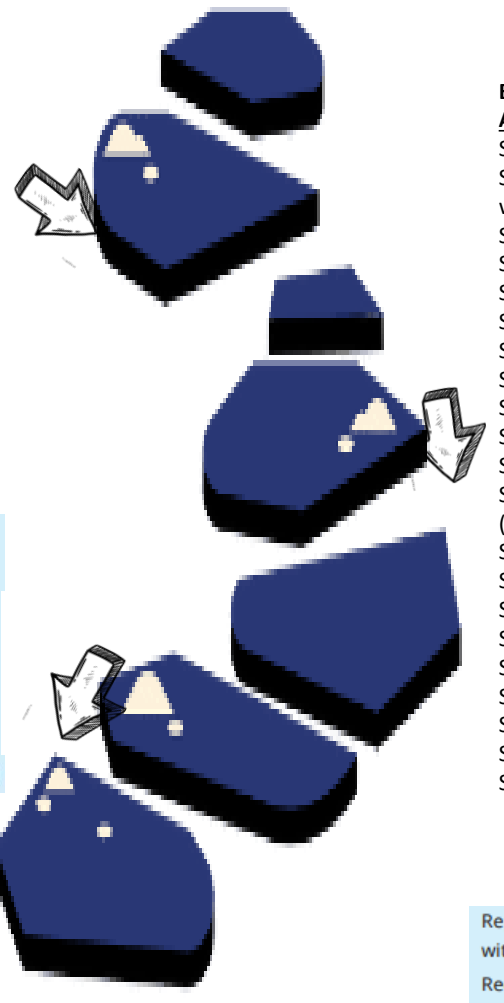
Read and write numbers to at least 100 in numerals and in words

Identify, represent and estimate numbers using different representations, including the number line

Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward

Compare and order numbers from 0 up to 100; use <, > and = signs

Recognise the place value of each digit in a 2-digit number (tens, ones)



Block 2 Number

Addition and Subtraction

Step 1 Bonds to 10
Step 2 Fact families - addition and subtraction bonds within 20
Step 3 Related facts
Step 4 Bonds to 100 (tens)
Step 5 Add and subtract 1s
Step 6 Add by making 10
Step 7 Add three 1-digit numbers
Step 8 Add to the next 10
Step 9 Add across a 10
Step 10 Subtract across 10
Step 11 Subtract from a 10
Step 12 Subtract a 1-digit number from a 2-digit number (across a 10)
Step 13 10 more, 10 less
Step 14 Add and subtract 10s
Step 15 Add two 2-digit numbers (not across a 10)
Step 16 Add two 2-digit numbers (across a 10)
Step 17 Subtract two 2-digit numbers (not across a 10)
Step 18 Subtract two 2-digit numbers (across a 10)
Step 19 Mixed addition and subtraction
Step 20 Compare number sentences
Step 21 Missing number problems

Addition and Subtraction

Represent and use number bonds and related subtraction facts within 20 (Y1)

Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100

Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers

Compare and order numbers from 0 up to 100; use <, > and = signs

Block 3 Shape

Geometry

Step 1 Recognise 2-D and 3-D shapes
Step 2 Count sides on 2-D shapes
Step 3 Count vertices on 2-D shapes
Step 4 Draw 2-D shapes
Step 5 Lines of symmetry on shapes
Step 6 Use lines of symmetry to complete shapes
Step 7 Sort 2-D shapes
Step 8 Count faces on 3-D shapes
Step 9 Count edges on 3-D shapes
Step 10 Count vertices on 3-D shapes
Step 11 Sort 3-D shapes
Step 12 Make patterns with 2-D and 3-D shape

Shape

Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line

Compare and sort common 2-D and 3-D shapes and everyday objects

Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces

Identify 2-D shapes on the surface of 3-D shapes

Number and Place value	Addition and Subtraction	Multiplication and division	Measure	Position and direction	Shape	Fractions	Problem solving
Numbers to 100 Hundreds Partition Recombine Hundred more, less Equal to, same as Odd, even Units, ones, tens Compare Value	Number bonds, number line Add, more, plus, make, sum, total, altogether Inverse Equals Difference between, How many more make…? How much more is…? Subtract, take away, minus How many fewer is…? How much less is…?	Odd, even How many times Lots of, groups of Multiply, multiple of Repeated addition, Array, row Double, halve Share, share equally Equal groups of Divide, divided by, left over	Quarter past Quarter to Km, m Kg, g Ml, l Temperature degrees Holds Container Weigh, balances Heavy, heavier, heaviest	Rotation Clockwise Anti clockwise Straight line Ninety degree turn Right angle	Size Bigger, smaller, larger Symmetrical, line of symmetry Fold Match Mirror line, reflection, Pattern, repeating pattern,	Three quarters One third, a third Equivalence Equivalent to	Predict Describe the pattern Describe the rule Find, find all Investigate Describe Explain Prove it

Year 3 Pathway Autumn

Block 1 Number
Place Value.
Step 1 Represent numbers to 100
Step 2 Partition numbers to 100
Step 3 Number line to 100
Step 4 Hundreds
Step 5 Represent numbers to 1,000
Step 6 Partition numbers to 1,000
Step 7 Flexible partitioning of numbers to 1,000
Step 8 Hundreds, tens and ones
Small steps
Year 3 | Autumn term | Block 1 – Place value

Step 9 Find 1, 10 or 100 more or less
Step 10 Number line to 1,000
Step 11 Estimate on a number line to 1,000
Step 12 Compare numbers to 1,000
Step 13 Order numbers to 1,000
Step 14 Count in 50

Place Value

Identify, represent and estimate numbers using different representations

Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones)

Read and write numbers up to 1,000 in numerals and words

Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number

Block 3 Number
Multiplication and division.
Step 1 Multiplication – equal groups
Step 2 Use arrays
Step 3 Multiples of 2
Step 4 Multiples of 5 and 10
Step 5 Sharing and grouping
Step 6 Multiply by 3
Step 7 Divide by 3
Step 8 The 3 times-table
Step 9 Multiply by 4
Step 10 Divide by 4
Step 11 The 4 times-table
Step 12 Multiply by 8
Step 13 Divide by 8
Step 14 The 8 times-table
Step 15 The 2, 4 and 8 times-table

Multiplication and Division A

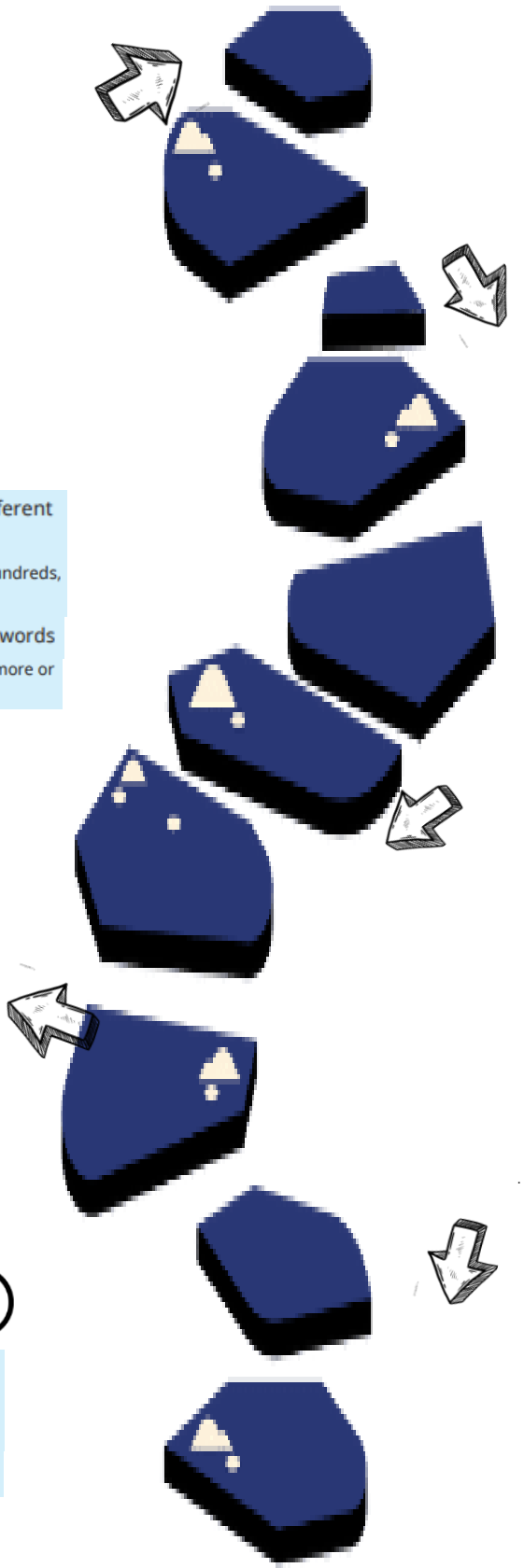
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods

Show that multiplication of two numbers can be done in any order (commutative) and division on one number by another cannot (Y2)

Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward (Y2)

Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2)

Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables



Block 2 Number
Addition and Subtraction.
Step 1 Apply number bonds within 10
Step 2 Add and subtract 1s
Step 3 Add and subtract 10s
Step 4 Add and subtract 100s
Step 5 Spot the pattern
Step 6 Add 1s across a 10
Step 7 Add 10s across a 100
Step 8 Subtract 1s across a10
Step 9 Subtract 10s across a 100
Step 10 Make connections
Step 11 Add two numbers (no exchange)
Step 12 Subtract two numbers (no exchange)
Step 13 Add two numbers (across a 10)
Step 14 Add two numbers (across a 100)
Step 15 Subtract two numbers (across a 10)
Step 16 Subtract two numbers (across a 100)
Step 17 Add 2-digit and 3-digit numbers
Step 18 Subtract a 2-digit number from a 3-digit number
Step 19 Complements to 100
Step 20 Estimate answers
Step 21 Inverse operations
Step 22 Make decision

Addition and Subtraction

Add and subtract numbers mentally, including:

- a 3-digit number and ones
- a 3-digit number and tens
- a 3-digit number and hundreds

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

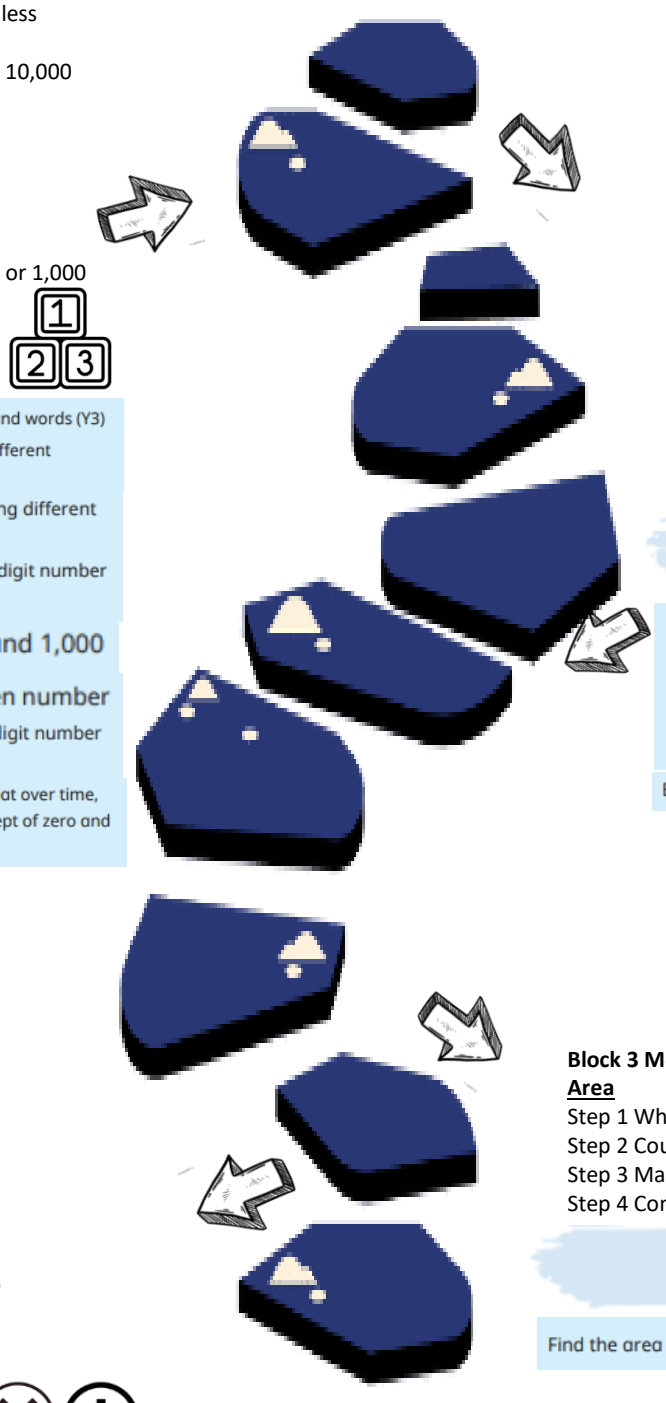
Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction

Estimate the answer to a calculation and use inverse operations to check answers

Number and Place value	Addition and Subtraction	Multiplication and division	Measure	Position and direction	Shape	Fractions	Data/Statistics
Numbers to 1000 Partition Recombine Hundred more, less Equal to, same as Odd, even Compare Value	Column addition, Column subtraction, Inverse Equals Difference between, How many more make…? How much more is…? Subtract, take away, minus How many fewer is…? How much less is…?	Product Multiples of… Scale up Multiply, multiple of Repeated addition, Array, row Share, share equally Equal groups of Divide, divided by, left over	Twelve/twenty four hour clock Am, pm Roman numerals I to XIII	Greater, less than Ninety degrees Orientation, Same orientation Different orientation	Horizontal, Vertical Perpendicular lines Parallel lines	Numerator Denominator Unit fraction, non unit fraction Compare and order Tenths	Chart Bar chart Frequency table Carroll diagram Venn diagram Axis Diagram

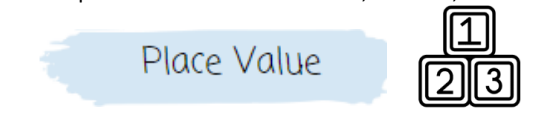
Year 4 Pathway Autumn

Block 1 Number
Place value
Step 1 Represent numbers to 1,000
Step 2 Partition numbers to 1,000
Step 3 Number line to 1,000
Step 4 Thousands
Step 5 Represent numbers to 10,000
Step 6 Partition numbers to 10,000
Step 7 Flexible partitioning of numbers to 10,000
Step 8 Find 1, 10, 100, 1,000 more or less
Step 9 Number line to 10,000
Step 10 Estimate on a number line to 10,000
Step 11 Compare numbers to 10,000
Step 12 Order numbers to 10,000
Step 13 Roman numerals
Step 14 Round to the nearest 10
Step 15 Round to the nearest 100
Step 16 Round to the nearest 1,000
Step 17 Round to the nearest 10, 100 or 1,000



Block 2 Number
Addition and Subtraction
Step 1 Add and subtract 1s, 10s, 100s and 1,000s
Step 2 Add up to two 4-digit numbers – no exchange
Step 3 Add two 4-digit numbers – one exchange
Step 4 Add two 4-digit numbers – more than one exchange
Step 5 Subtract two 4-digit numbers – no exchange
Step 6 Subtract two 4-digit numbers – one exchange
Step 7 Subtract two 4-digit numbers – more than one exchange
Step 8 Efficient subtraction
Small steps
Year 4 | Autumn term | Block 2 – Addition and subtraction

Step 9 Estimate answers
Step 10 Checking strategies



Read and write numbers up to 1,000 in numerals and words (Y3)

Identify, represent and estimate numbers using different representations

Identify, represent and estimate numbers using different representations

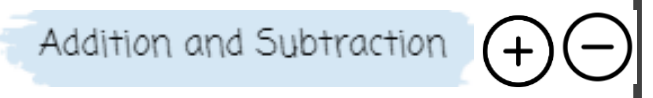
Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) (Y3)

Count in multiples of 6, 7, 9, 25 and 1,000

Find 1,000 more or less than a given number

Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones)

Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value

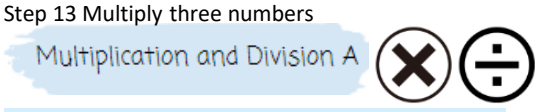


Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate

Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Estimate and use inverse operations to check answers to a calculation

Block 4 Number
Multiplication and division
Step 1 Multiples of 3
Step 2 Multiply and divide by 6
Step 3 6 times-table and division facts
Step 4 Multiply and divide by 9
Step 5 9 times-table and division facts
Step 6 The 3, 6 and 9 times-tables
Step 7 Multiply and divide by 7
Step 8 7 times-table and division facts
Step 9 11 times-table and division facts
Step 10 12 times-table and division facts
Step 11 Multiply by 1 and 0
Step 12 Divide a number by 1 and itself
Step 13 Multiply three numbers



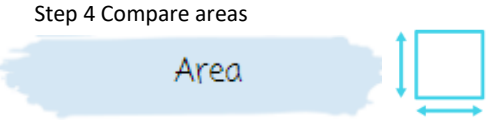
Recall multiplication and division facts for multiplication tables up to 12 × 12

Recognise and use factor pairs and commutativity in mental calculations

Count in multiples of 6, 7, 9, 25 and 1,000

Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers

Block 3 Measurement
Area
Step 1 What is area?
Step 2 Count squares
Step 3 Make shapes
Step 4 Compare areas



Find the area of rectilinear shapes by counting squares

Number and Place value	Multiplication and division	Measure	Position and direction	Shape	Fractions	Data/Statistics
Tenths, hundredths, decimal places Round (to nearest) Thousand more, thousand less Negative integers Count through zero Roman Numerals (I to C)	Multiplication facts (up to 12 x 12) Division facts Inverse Derive	Convert	Co-ordinates Translation Quadrant X axis Y axis Perimeter and area	Quadrilaterals Triangles Right angle Acute and obtuse angles	Equivalent decimals and fractions	Continuous data Line graph

Year 5 Pathway Autumn

Block 1 Number
Place Value
Step 1 Roman numerals to 1,000
Step 2 Numbers to 10,000
Step 3 Numbers to 100,000
Step 4 Numbers to 1,000,000
Step 5 Read and write numbers to 1,000,000
Step 6 Powers of 10
Step 7 10/100/1,000/10,000/100,000 more or less
Step 8 Partition numbers to 1,000,000
Step 9 Number line to 1,000,000
Step 10 Compare and order numbers to 100,000
Step 11 Compare and order numbers to 1,000,000
Step 12 Round to the nearest 10, 100 or 1,000
Step 13 Round within 100,000
Step 14 Round within 1,000,000

Place Value

Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals

Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit

Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000

Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000

Solve number problems and practical problems involving the above

Block 2 Number
Addition and Subtraction
Step 1 Mental strategies
Step 2 Add whole numbers with more than four digits
Step 3 Subtract whole numbers with more than four digits
Step 4 Round to check answers
Step 5 Inverse operations (addition and subtraction)
Step 6 Multi-step addition and subtraction problems
Step 7 Compare calculations
Step 8 Find missing numbers

Addition and Subtraction

Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction)

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Add and subtract numbers mentally with increasingly large numbers

Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy

Block 3 Number
Multiplication and Division.
Step 1 Multiples
Step 2 Common multiples
Step 3 Factors
Step 4 Common factors
Step 5 Prime numbers
Step 6 Square numbers
Step 7 Cube numbers
Step 8 Multiply by 10, 100 and 1,000
Small steps
Year 5 | Autumn term | Block 3 – Multiplication and division A

Step 9 Divide by 10, 100 and 1,000
Step 10 Multiples of 10, 100 and 1,000

Multiplication and Division A

Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers

Establish whether a number up to 100 is prime and recall prime numbers up to 19

Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)

Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000

Identify multiples and factors, including finding all factor pairs of a Multiply and divide numbers mentally, drawing upon known facts

Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes

Block 4 Number
Fractions
Step 1 Find fractions equivalent to a unit fraction
Step 2 Find fractions equivalent to a non-unit fraction
Step 3 Recognise equivalent fractions
Step 4 Convert improper fractions to mixed numbers
Step 5 Convert mixed numbers to improper fractions
Step 6 Compare fractions less than 1
Step 7 Order fractions less than 1
Step 8 Compare and order fractions greater than 1
Step 9 Add and subtract fractions with the same denominator
Step 10 Add fractions within 1
Step 11 Add fractions with total greater than 1
Step 12 Add to a mixed number
Step 13 Add two mixed numbers
Step 14 Subtract fractions
Step 15 Subtract from a mixed number
Step 16 Subtract from a mixed number – breaking the whole

Fractions A

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number

Compare and order fractions whose denominators are all multiples of the same number

Add and subtract fractions with the same denominator, and denominators that are multiples of the same number

Number and Place value	Multiplication and division	Measure	Position and direction	Shape	Fractions
Powers of ten	Efficient written method Factor pairs Composite, prime, prime factor, square numbers, cubed numbers Formal written method	Volume Imperial measures/units Metric measures/units	Reflex angles Dimensions	Regular and irregular polygons	Proper fraction, improper fractions, mixed numbers Percentage Half Quarter Fifths Ratio and proportion

Year 6 Pathway Autumn

Block 1 Number

Place Value

Step 1 Numbers to 1,000,000
Step 2 Numbers to 10,000,000
Step 3 Read and write numbers to 10,000,000
Step 4 Powers of 10
Step 5 Number line to 10,000,000
Step 6 Compare and order any integers
Step 7 Round any integer
Step 8 Negative numbers

Place Value

Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit

Solve number and practical problems that involve the above

Round any whole number to a required degree of accuracy

Use negative numbers in context, and calculate intervals across zero

Block 2 Number

Addition and Subtraction

Step 1 Add and subtract integers
Step 2 Common factors
Step 3 Common multiples
Step 4 Rules of divisibility
Step 5 Primes to 100
Step 6 Square and cube numbers
Step 7 Multiply up to a 4-digit number by a 2-digit number
Step 8 Solve problems with multiplication
Step 9 Short division
Step 10 Division using factors
Step 11 Introduction to long division
Step 12 Long division with remainders
Step 13 Solve problems with division
Step 14 Solve multi-step problems
Step 15 Order of operations
Step 16 Mental calculations and estimation
Step 17 Reason from known facts

Addition and Subtraction

Multiplication and division

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Solve problems involving addition, subtraction, multiplication and division

Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy

Identify common factors, common multiples and prime numbers

Multiply multi-digit numbers up to four digits by a 2-digit whole number using the formal written method of long multiplication

Perform mental calculations, including with mixed operations and large numbers

Divide numbers up to four digits by a 2-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

Use their knowledge of the order of operations to carry out calculations involving the four operations

Block 5 Measurement

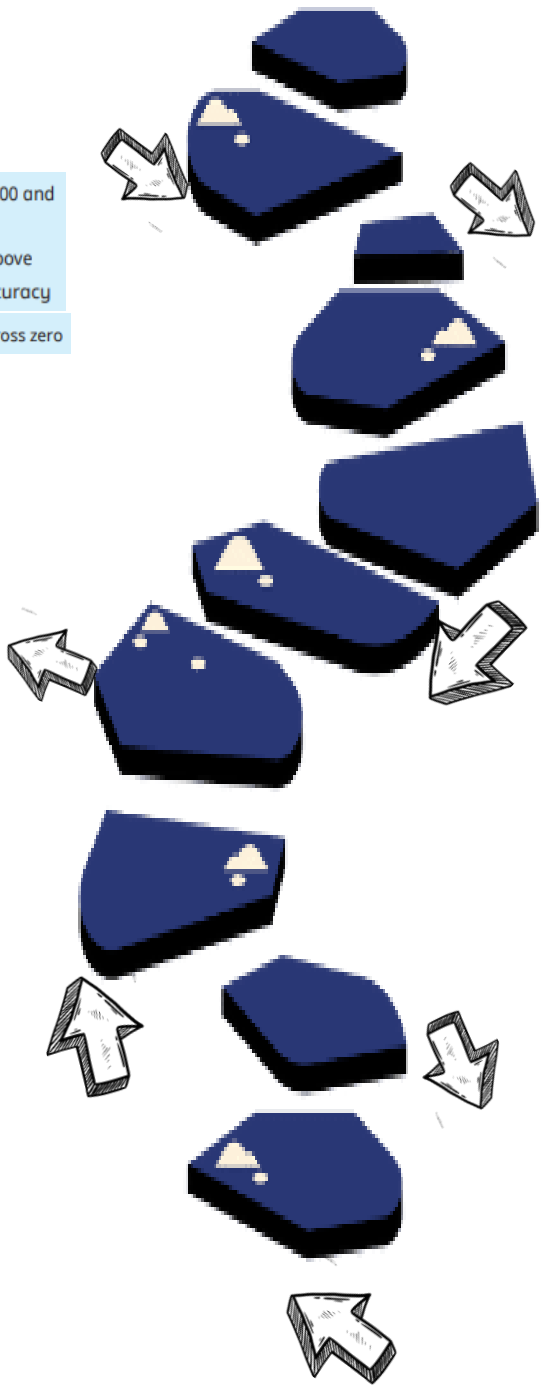
Converting Units

Step 1 Metric measures
Step 2 Convert metric measures
Step 3 Calculate with metric measures
Step 4 Miles and kilometres
Step 5 Imperial measures

Converting Units

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate

Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places



Block 4 Number

Fractions B

Step 1 Step 1 Multiply fractions by integers
Step 2 Multiply fractions by fractions
Step 3 Divide a fraction by an integer
Step 4 Divide any fraction by an integer
Step 5 Mixed questions with fractions
Step 6 Fraction of an amount
Step 7 Fraction of an amount – find the whole

Fractions B

Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams (Y5)

Multiply simple pairs of proper fractions, writing the answer in its simplest form

Divide proper fractions by whole numbers

Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

Solve problems involving addition, subtraction, multiplication and division

Associate a fraction with division and calculate decimal fraction equivalents

Block 3 Number

Fractions A

Step 1 Equivalent fractions and simplifying
Step 2 Equivalent fractions on a number line
Step 3 Compare and order (denominator)
Step 4 Compare and order (numerator)
Step 5 Add and subtract simple fractions
Step 6 Add and subtract any two fractions
Step 7 Add mixed numbers
Step 8 Subtract mixed numbers
Step 9 Multi-step problems

Fractions A

Use common factors to simplify fractions; use common multiples to express fractions in the same denomination

Compare and order fractions, including fractions > 1

Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

Identify common factors, common multiples and prime numbers

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Solve problems involving addition, subtraction, multiplication and division

Number and Place value	Addition, subtraction, multiplication and division	Geometry (position and direction and properties of shape)	Fractions, decimals and percentages	Algebra	Data/Statistics
Numbers to 10 million	Order of Operations	Four quadrants	Degree of accuracy	Linear number	Mean
	Bidmas	Vertically opposite (angles)	Simplify	Sequence	Pie chart
	Common factors	Circumference		Substitute	Construct
	Common multiples	Radius		Variables	
		Diameter		Symbol	
				Known values	