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|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| **Autumn 1** | **Unit 1 (1A)****Numbers to 10** | **Unit 1 (2A)****Numbers to 100** | **Unit 1 (3A)****Place value within 1,000** | **Unit 1 (4A)****Place value – 4-digit numbers (1)** | **Unit 1 (5A)****Place value within 100,000** | **Unit 1 (6A)****Place value within 10,000,000** |
| 1. Sorting objects
2. Counting objects to 10
3. Counting and writing numbers to 10
4. Counting backwards from 10 to 0
5. Counting one more
6. Counting one less
7. Comparing groups
8. Comparing numbers of objects
9. Comparing numbers
10. Ordering objects and numbers
11. First, second, third…
12. The number line
 | 1. Counting objects to 100
2. Representing numbers to 100
3. Tens and ones (1)
4. Tens and ones (2)
5. Representing numbers on a place value grid
6. Comparing numbers (1)
7. Comparing numbers (2)
8. Ordering numbers
9. Counting in 2s, 5s and 10s
10. Counting in 3s
 | 1. Counting in 100s
2. Representing numbers to 1,000
3. 100s, 10s and 1s (1)
4. 100s, 10s and 1s (2)
5. The number line to 1,000 (1)
6. The number line to 1,000 (2)
7. Finding 1, 10 and 100 more or less
8. Comparing numbers to 1,000 (1)
9. Comparing numbers to 1,000 (2)
10. Ordering numbers to 1,000
11. Counting in 50s
 | 1. Numbers to 1,000
2. Rounding to the nearest 10
3. Rounding to the nearest 100
4. Counting in 1,000s
5. Representing 4-digit numbers
6. 1,000s, 100s, 10s and 1s
7. The number line to 10,000 (1)
8. The number line to 10,000 (2)
9. Roman numerals to 100
 | 1. Numbers to 10,000
2. Rounding to the nearest 10, 100 and 1,000
3. 10,000s, 1,000s, 100s, 10s and 1s (1)
4. 10,000s, 1,000s, 100s, 10s and 1s (1)
5. The number line to 100,000
6. Comparing and ordering numbers to 100,000
7. Rounding numbers within 100,000
8. Roman numerals to 10,000
 | 1. Numbers to 1,000,000
2. Numbers to 10,000,000 (1)
3. Numbers to 10,000,000 (2)
4. Number line to 10,000,000
5. Comparing and ordering numbers to 10,000,000
6. Rounding numbers
7. Negative numbers
 |
| * 1NPV–1 Count within 100, forwards and backwards, starting with any number.
* 1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =
 | * 2NPV–1 Recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning.
* 2NPV–2 Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10.
 | * 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.
* 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.
 | * 4NPV–1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100.
* 4NPV–2 Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and nonstandard partitioning.
* 4NPV–3 Reason about the location of any four digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each.
* 4NPV–4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts
 | * 6NPV–1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).
* 6NPV–2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning.
* 6NPV–3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts.
* 6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.
 |
| **Unit 2 (2A)****Addition and subtraction (1)** | **Unit 2 (3A)****Addition and subtraction (1)** | **Unit 2 (4A)****Place value – 4-digit numbers (2)** | **Unit 2 (5A)****Place value within 1,000,000** | **Unit 2 (6A)****Four operations (1)** |
| 1. Related facts – addition and subtraction
2. Using number facts to check calculations
3. Comparing number sentences
4. Finding related facts
5. Making number bonds
6. Adding and subtracting 1s
7. Finding 10 more and 10 less
8. Adding and subtracting 10s
9. Adding a 2-digit and 1-digit number (1)
10. Adding a 2-digit and 1-digit number (2)
11. Subtracting a 1-digit number from a 2- digit number (1)
12. Subtracting a 1-digit number from a 2- digit number (2)
 | 1. Adding and subtracting 100s
2. Adding and subtracting a 3-digit number and 1s
3. Adding a 3-digit number and 1s
4. Subtracting 1s from a 3-digit number
5. Adding and subtracting a 3-digit number and 10s
6. Adding a 3-digit number and 10s
7. Subtracting 10s from a 3-digit number
8. Adding and subtracting a 3-digit and 2-digit number
9. Adding a 3-digit and 2-digit number
10. Subtracting a 2-digit number from a 3-digit number
 | 1. Finding 1,000 more or less
2. Comparing 4-digit numbers (1)
3. Comparing 4-digit numbers (2)
4. Ordering numbers to 10,000
5. Rounding to the nearest 1,000
6. Solving problems using rounding
7. Counting in 25s
8. Negative number (1)
9. Negative numbers (2)
 | 1. 100,000s, 10,000s, 1,000s, 100s, 10s and 1s (1)
2. 100,000s, 10,000s, 1,000s, 100s, 10s and 1s (2)
3. Number line to 1,000,000
4. Comparing and ordering numbers to 1,000,000
5. Rounding numbers to a 1,000,000
6. Negative numbers
7. Counting in 10s, 100s, 1,000s, 10,000s
8. Number sequences
 | 1. Problem solving – using written methods of addition and subtraction (1)
2. Problem solving – using written methods of addition and subtraction (2)
3. Multiplying numbers up to 4 digits by a 1 digit number
4. Multiplying numbers up to 4 digits by a 2-digit number
5. Dividing numbers up to 4 digits by a 2-digit number (1)
6. Dividing numbers up to 4 digits by a 2-digit number (20
7. Dividing numbers up to 4 digits by a 2-digit number (3)
8. Dividing numbers up to 4 digits by a 2-digit number (4)
9. Dividing numbers up to 4 digits by a 2-digit number (5)
10. Dividing numbers up to 4 digits by a 2-digit number (6)
 |
| * 2NF–1 Secure fluency in addition and subtraction facts within 10, through continued practice.
* 2AS–1 Add and subtract across 10.
 | * 3NF–1 Secure fluency in addition and subtraction facts that bridge 10, through continued practice.
* 3NF–3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).
* 3AS–1 Calculate complements to 100.
* 3AS–2 Add and subtract up to three-digit numbers using columnar methods.
 | * 4NPV–1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100.
* 4NPV–3 Reason about the location of any four digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each.
* 4NPV–4 Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts
 |
| **Unit 3 (5A)****Addition and subtraction** | **Unit 3 (6A)****Four operation (2)** |
| 1. Adding whole numbers with more than 4 digits (1)
2. Adding whole numbers with more than 4 digits (2)
3. Subtracting whole numbers with more than 4 digits (1)
4. Subtracting whole numbers with more than 4 digits (2)
5. Using rounding to estimate and check answers
6. Mental addition and subtraction (1)
7. Mental addition and subtraction (2)
8. Using inverse operations
9. Problem solving – addition and subtraction (1)
10. Problem solving – addition and subtraction (2)
 | 1. Common factors
2. Common multiples
3. Recognising prime numbers to 100
4. Square and cubes
5. Order of operations
6. Brackets
7. Mental calculations (1)
8. Mental calculations (2)

Reasoning from known facts |
| * 6AS/MD–1 Understand that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number).
* 6AS/MD–2 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.
 |
| **Autumn 2** | **Unit 2 (1A)****Part-whole within 10** | **Unit 3 (2A)****Addition and subtraction (2)** | **Unit 3 (3A)****Addition and subtraction (2)** | **Unit 3 (4A)****Addition and subtraction**  | **Unit 4 (5A)****Graphs and tables** | **Unit 4 (6A)****Fractions** |
| 1. The part-whole model (1)
2. The part-whole model (2)
3. Related facts – number bonds
4. Finding number bonds
5. Comparing number bonds
 | 1. Adding two 2-digit numbers (1)
2. Adding two 2-digit numbers (2)
3. Subtracting a 2-digit number from another 2-digit number (1)
4. Subtracting a 2-digit number from another 2-digit number (2)
5. Subtracting a 2-digit number from another 2-digit number (3)
6. Subtracting a 2-digit number from another 2-digit number (4)
7. Adding three 1-digit numbers
8. Solving word problems – the bar model (1)
9. Solving word problems – the bar model (2)
 | 1. Addition and subtraction patterns
2. Adding two 3-digit numbers (1)
3. Adding two 3-digit numbers (2)
4. Subtracting a 3-digit number from a 3-digit number (1)
5. Subtracting a 3-digit number from a 3-digit number (2)
6. Estimating answers to additions and subtractions
7. Checking strategies
8. Problem solving – addition and subtraction (1)
9. Problem solving – addition and subtraction (2)
 | 1. Adding and subtracting 1s, 10s, 100s, 1,000s
2. Adding two 4-digit numbers (1)
3. Adding two 4-digit numbers (20
4. Adding two 4-digit numbers (3)
5. Subtracting two 4-digit numbers (1)
6. Subtracting two 4-digit numbers (2)
7. Subtracting two 4-digit numbers (3)
8. Subtracting two 4-digit numbers (4)
9. Equivalent difference
10. Estimating answers to additions and subtractions
11. Checking strategies
12. Problem solving – addition and subtraction (1)
13. Problem solving – addition and subtraction (2)
14. Problem solving – addition and subtraction (3)
15. Problem solving – addition and subtraction (4)
 | 1. Interpreting tables
2. Two-way tables
3. Interpreting line graphs (1)
4. Interpreting line graphs (2)
5. Drawing line graphs
 | 1. Simplifying fractions (1)
2. Simplifying fractions (2)
3. Fractions on a number line
4. Comparing and ordering fractions (1)
5. Comparing and ordering fractions (2)
6. Adding and subtracting fractions (1)
7. Adding and subtracting fractions (2)
8. Adding fractions
9. Subtracting fractions
10. Problem solving – adding and subtracting fractions (1)
11. Problem solving – adding and subtracting fractions (2)
 |
| * 1AS–1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers.
* 1AS–2 Read, write and interpret equations containing addition (+), subtraction (–) and equals (=) symbols, and relate additive expressions and equations to real-life contexts.
 | * 2AS–2 Recognise the subtraction structure of ‘difference’ and answer questions of the form, “How many more…?”.
* 2AS–3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number.
* 2AS–4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.
 | * 3NF–1 Secure fluency in addition and subtraction facts that bridge 10, through continued practice.
* 3NF–3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).
* 3AS–1 Calculate complements to 100.
* 3AS–2 Add and subtract up to three-digit numbers using columnar methods.
* 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.
 | * 4NF–3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100)
 | * 6F–1 Recognise when fractions can be simplified, and use common factors to simplify fractions.
* 6F–2 Express fractions in a common denomination and use this to compare fractions that are similar in value.
* 6F–3 Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy.
 |
| **Unit 4 (2A)****Money** | **Unit 4 (3A)****Multiplication and division (1)** | **Unit 4 (4A)****Measure - perimeter** | **Unit 5 (5A)****Multiplication and division** | **Unit 5 (6A)****Fractions (2)** |
| 1. Counting money – coins
2. Counting money – notes
3. Counting money – coins and notes
4. Showing equal amounts of money (1)
5. Showing equal amounts of money (2)
6. Comparing amounts of money
7. Calculating the total amount
8. Finding change
9. Solving two-step word problems
 | 1. Multiplication - equal grouping
2. Multiplying by 3
3. Dividing by 3
4. 3 times-table
5. Multiplying by 4
6. Dividing by 4
7. 4 times-table
8. Multiplying by 8
9. Dividing by 8
10. 8 times-table
11. Problem solving - multiplication and division (1)
12. Problem solving - multiplication and division (2)
13. Understanding divisibility (1)
14. Understanding divisibility (2)
15. Related facts - multiplication and division
 | 1. Kilometres
2. Perimeter of a rectangle (1)
3. Perimeter of a rectangle (2)
4. Perimeter of rectilinear shapes (1)
5. Perimeter of rectilinear shapes (2)
 | 1. Multiples
2. Factors
3. Prime numbers
4. Using factors
5. Squares
6. Cubes
7. Inverse operations
8. Multiplying whole numbers by 10, 100 and 1,000
9. Dividing whole numbers by 10, 100 and 1,000
 | 1. Multiplying a fraction by a whole number
2. Multiplying a fraction by a fraction (1)
3. Multiplying a fraction by a fraction (2)
4. Dividing a fractions by a whole number (1)
5. Dividing a fraction by a whole number (2)
6. Dividing a fraction by a whole number(3)
7. Four rules with fractions
8. Calculating fractions of amounts
9. Problem solving - fractions of amounts
 |
| * 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.
* 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.
 | * 4G–2 Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons.
 | * 5MD–1 Multiply and divide numbers by 10 and 100; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size.
* 5MD–2 Find factors and multiples of positive whole numbers, including common factors and common multiples, and express a given number as a product of 2 or 3 factors.
* 5NF–2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).
 | * 6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.
 |
| **Unit 6 (5A)****Measure – area and perimeter** | **Unit 7 (6B)****Decimals** |
| 1. Measuring perimeter
2. Calculating perimeter (1)
3. Calculating perimeter (2)
4. Calculating area (1)
5. Calculating area (2)
6. Comparing area
7. Estimating area
 | 1. Multiplying by 10, 100 and 1,000
2. Dividing by multiples of 10, 100 and 1,000
 |
| * 5G–2 Compare areas and calculate the area of rectangles (including squares) using standard units.
 | * 6NPV–1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).
 |
| **Spring 1** | **Unit 3 (1A)****Addition and subtraction within 10 (1)** | **Unit 5 (2A)****Multiplication and division**  | **Unit 5 (3B)****Multiplication and division (2)** | **Unit 5 (4A)****Multiplication and division (1)** | **Unit 7 (5B)****Multiplication and division (2)** | **Unit 7 (6B)****Decimals (Continue from Autumn term)** |
| 1. Finding the whole – adding together
2. Finding the whole – adding more
3. Finding a part
4. Finding and making number bonds
5. Finding addition facts
6. Solving word problems – addition
 | 1. Making equal groups
2. Multiplication as equal groups
3. Adding equal groups
4. Multiplication sentences
5. Using arrays
6. 2 times-table
7. 5 times-table
8. 10 times-table
9. Solving word problems - multiplication
 | 1. Comparing multiplication and division statements
2. Related multiplication calculations
3. Related multiplication and division calculations
4. Comparing multiplication and division statements (2)
5. Multiplying a 2-digit number by a 1-digit number (1)
6. Multiplying a 2 digit number by a 1-digit number (2)
7. Multiplying a 2-digit number by a 1-digit number (3)
8. Dividing a 2 digit number by a 1-digit number (1)
9. Dividing a 2 digit number by a 1-digit number (2)
10. Dividing a 2 digit number by a 1-digit number (3)
11. How many ways?
12. Problem solving – mixed problems (1)
13. Problem solving – mixed problems (2)
14. Problem solving – mixed problems (3)
 | 1. Multiplying by multiples of 10 and 100
2. Dividing multiples of 10 and 100
3. Multiplying by 0 and 1
4. Dividing by 1
5. Multiplying and dividing by 6
6. 6 times-table
7. Multiplying and dividing by 9
8. 9 times-table
9. Multiplying and dividing by 7
10. 7 times-table
11. 11 and 12 times-tables
 | 1. Multiplying numbers up to 4 digits by a 1-digit number
2. Multiplying 2-digit numbers (1)
3. Multiplying 2 digit numbers (2)
4. Multiplying 2 digit numbers (3)
5. Multiplying a 3-digit number by a 2-digit number
6. Multiplying a 4-digit number by a 2-digit number
7. Dividing up to a 4-digit number by a 1-digit number (1)
8. Dividing up to a 4-digit number by a 1-digit number (2)
9. Division with remainders (1)
10. Division with remainders (2)
11. Problem solving – division with remainders
 | 1. Decimals as fractions
2. Fractions as decimals (1)
3. Fractions as decimals (2)
4. Multiplying decimals (1)
5. Multiplying decimals (2)
6. Dividing decimals (1)
7. Dividing decimals (2)
 |
| * 1NF–1 Develop fluency in addition and subtraction facts within 10.
* 1AS–2 Read, write and interpret equations containing addition (+), subtraction (–) and equals (=) symbols, and relate additive expressions and equations to real-life contexts.
 | * 2MD–1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.
 | * 3NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).
 | * 4NF–1 Recall multiplication and division facts up to 12 x 12, and recognise products in multiplication tables as multiples of the corresponding number
* 4MD–1 Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size.
* 5NF–1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.
 | * 5MD–3 Multiply any whole number with up to 4 digits by any one-digit number using a formal written method.
* 5MD–4 Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context.
 | * 6NPV–1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000).
 |
| **Unit 4 (1A)****Addition and subtraction within 10 (2)** | **Unit 6 (2B)****Multiplication and division (2)** | **Unit 9 (3B)****Fractions (1)** | **Unit 6 (4B)****Multiplication and division (2)** | **Unit 8 (5B)****Fractions** | **Unit 9 (6B)****Algebra** |
| 1. Subtraction – how many are left (1)
2. Subtraction – how many are left (2)
3. Subtraction – breaking apart (1)
4. Subtraction – breaking apart (2)
5. Related facts – addition and subtraction (1)
6. Related facts – addition and subtraction (2)
7. Subtracting – counting back
8. Subtraction – finding the difference
9. Solving word problems – subtraction
10. Comparing additions and subtractions (1)
11. Comparing additions and subtractions (2)
12. Solving word problems – addition and subtraction
 | 1. Making equal groups
2. Sharing and grouping
3. Dividing by 2
4. Odd and even numbers
5. Dividing by 5
6. Dividing by 10
7. Bar modelling – grouping
8. Bar modelling – sharing
9. Solving word problems - division
 | 1. Unit and non unit fractions
2. Making the whole
3. Tenths (1)
4. Tenths (2)
5. Fractions as numbers (1)
6. Fractions as numbers (2)
7. Fractions as numbers (3)
8. Fractions of a set of objects (1)
9. Fractions of a set of objects (2)
10. Fractions of a set of objects (3)
11. Problem solving – fractions
 | 1. Problem solving – addition and multiplication
2. Problem solving – mixed problems
3. Using written methods to multiply
4. Multiplying a 2-digit number by a 1-digit number
5. Multiplying a 3-digit number by a 1-digit number
6. Problem solving - multiplication
7. Multiplying more than two numbers (1)
8. Multiplying more than two numbers (2)
9. Problem solving – mixed correspondence problems
10. Dividing a 2-digit number by a 1-digit number (1)
11. Division with remainders
12. Dividing a 2-digit number by a 1-digit number (2)
13. Dividing a 2-digit number by a 1-digit number (3)
14. Dividing a 3-digit number by a 1-digit number
15. Problem solving – division
 | 1. Equivalent fractions
2. Converting improper fractions to mixed numbers
3. Converting mixed numbers to improper fractions
4. Number sequences
5. Comparing and ordering fractions (1)
6. Comparing and ordering fractions (2)
7. Fractions as division (1)
 | 1. Finding a rule (1)
2. Finding a rule (2)
3. Using a rule (1)
4. Using a rule (2)
5. Using a rule (3)
6. Formulae
7. Solving equations (1)
8. Solving equations (2)
9. Solving equations (3)
10. Solving equations (4)
11. Solving equations (5)
 |
| * 1NF–1 Develop fluency in addition and subtraction facts within 10.
* 1AS–2 Read, write and interpret equations containing addition (+), subtraction (–) and equals (=) symbols, and relate additive expressions and equations to real-life contexts.
 | * 2MD–2 Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).
* 1AS–1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers.
 | * 3F–1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts.
* 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.
* 5NPV–4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts.
 | * 4NF–2 Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, and interpret remainders appropriately according to the context.
* 4NF–3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100)
* 4MD–2 Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication.
* 4MD–3 Understand and apply the distributive property of multiplication.
 | * 5F–2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system.
 | * 6AS/MD–4 Solve problems with 2 unknowns.
 |
| **Unit 5 (1A)****2D and 3D Shapes** | **Unit 9 (2B)****Properties of shapes** | **Unit 10 (6B)****Measure – imperial and metric measures** |
| 1. Naming 3D shapes (1)
2. Naming 3D shapes (2)
3. Naming 2D shapes (1)
4. Naming 2D shapes (2)
5. Making patterns with shapes
 | 1. Recognising 2D and 3D shapes
2. Drawing 2D shapes
3. Counting sides on 2D shapes
4. Counting vertices on 2D shapes
5. Finding lines of symmetry
6. Sorting 2D shapes
7. Making patterns with 2D shapes
8. Counting faces on 3D shapes
9. Counting edges on 3D shapes
10. Counting vertices on 3D shapes
11. Sorting 3D shapes
12. Making patterns with 3D shapes
 | 1. Metric measures
2. Converting metric measures
3. Problem solving – metric measures
4. Miles and km
5. Imperial measure
 |
| * 1G–1 Recognise common 2D and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another.
* 1G–2 Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations.
 | * 2G–1 Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties.
 | * 6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4,
* 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.
 |
| **Spring 2** | **Unit 6 (1A)****Numbers to 20** | **Unit 12 (2C)****Problem solving and efficient methods** | **Unit 10 (3C)****Fractions (2)** | **Unit 8 (4B)** **Fractions (1)** | **Unit 9 (5B)****Fractions (2)** | **Unit 11 (6B)****Measure – perimeter, area and volume** |
| 1. Counting and writing numbers to 20
2. Tens and ones (1)
3. Tens and ones (2)
4. Counting one more, one less
5. Comparing numbers of objects
6. Comparing numbers
7. Ordering objects and numbers
 | 1. My way, your way!
2. Using number facts
3. Using number facts and equivalence
4. Using a 100-square
5. Getting started
6. Missing numbers
7. Mental addition and subtraction (1)
8. Mental addition and subtraction (2)
9. Efficient subtraction
10. Solving problems – addition and subtraction
11. Solving problems – multiplication and division
12. Solving problems using the four operations
 | 1. Equivalent fractions (1)
2. Equivalent fractions (2)
3. Equivalent fractions (3)
4. Comparing fractions
5. Comparing and ordering fractions
6. Adding fractions
7. Subtracting fractions
8. Problem solving - adding and subtracting fractions
 | 1. Tenths and hundredths (1)
2. Tenths and hundredths (2)
3. Equivalent fractions (1)
4. Equivalent fractions (2)
5. Simplifying fractions
6. Fractions greater than 1 (1)
7. Fractions greater than 1 (2)
 | 1. Adding and subtracting fractions with the same denominator
2. Adding and subtracting fractions (1)
3. Adding and subtracting (2)
4. Adding fractions (1)
5. Adding fractions (2)
6. Adding fractions (3)
7. Subtracting fractions (1)
8. Subtracting fractions (2)
9. Subtracting fractions (3)
10. Subtracting fractions (4)
11. Problem solving – mixed word problems (1)
12. Problem solving – mixed word problems (2)
 | 1. Shapes with the same area
2. Area and perimeter (1)
3. Area and perimeter (2)
4. Area of a parallelogram
5. Area of a triangle (1)
6. Area of a triangle (2)
7. Area of a triangle (3)
8. Problem solving – area
9. Problem solving – perimeter
10. Volume of a cuboid (1)
11. Volume of a cuboid (2)
 |
| * 1NPV–1 Count within 100, forwards and backwards, starting with any number.
* 1NPV–2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and =
 | * 2AS–4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.
* 2MD–2 Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division).
 | * Problem solving – fractions of measures3F–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.
 | * 4F–1 Reason about the location of mixed numbers in the linear number system.
* 4F–2 Convert mixed numbers to improper fractions and vice versa.
 | * 6G–1 Draw, compose, and decompose shapes according to given

properties, including dimensions, angles and area, and solve related problems. |
| **Unit 7 (1B)****Addition within 20** | **Unit 7 (2B)****Statistics** | **Unit 12 (3C)****Angles and properties of shape** | **Unit 9 (4B)****Fractions (2)** | **Unit 10 (5B)****Fractions (3)** | **Unit 12 (6B)****Ratio and proportion** |
| 1. Add by counting on
2. Adding ones
3. Finding number bonds
4. Add by making 10 (1)
5. Add by making 10 (2)
6. Solving word problems - addition
 | 1. Making tally charts
2. Creating pictograms (1)
3. Creating pictograms (2)
4. Interpreting pictograms (1)
5. Interpreting pictograms (2)
6. Block diagrams
7. Solving word problems
 | 1. Turns and angles
2. Right angles in shapes
3. Comparing angles
4. Drawing accurately
5. Types of line (1)
6. Types of line (2)
7. Recognising and describing 2D shapes
8. Recognising and describing 3D shapes
9. Constructing 3D shapes
 | 1. Adding fractions
2. Subtracting fractions (1)
3. Subtracting fractions (2)
4. Problem solving – adding and subtracting fractions (1)
5. Problem solving – adding and subtracting fractions (2)
6. Calculating fractions of a quantity
7. Problem solving – fraction of a quantity (1)
8. Problem solving – fraction of a quantity (2)
 | 1. Multiplying fractions (1)
2. Multiplying fractions (2)
3. Multiplying fractions (3)
4. Multiplying fractions (4)
5. Calculating fractions of amounts
6. Using fractions as operators
7. Problem solving – mixed word problems
 | 1. Ratio (1)
2. Ratio (2)
3. Ratio (3)
4. Ratio (4)
5. Scale drawings
6. Scale factors
7. Similar shapes
8. Problem solving - ratio and proportion (1)
9. Problem solving - ratio and proportion (2)
 |
| * 1AS–2 Read, write and interpret equations containing addition (+), subtraction (–) and equals (=) symbols, and relate additive expressions and equations to real-life contexts.
 | * 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.
 | * 4F–3 Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers
* 5F–1 Find non-unit fractions of quantities.
 | * 6AS/MD–3 Solve problems involving ratio relationships.
 |
| **Unit 8 (1B)****Subtraction within 20** | **Unit 8 (1B)****Length and height** | **Unit 15 (4C)****Geometry – angles and 2D shapes** | **Unit 11 (5B)****Decimals and percentages**  | **Unit 13 (6C)****Geometry – properties of shapes** |
| 1. Subtracting ones
2. Subtracting tens and ones
3. Subtraction – crossing the 10 (1)
4. Subtraction – crossing the 10(2)
5. Solving word and picture problems – subtraction
6. Addition and subtraction facts to 20
7. Comparing additions and subtractions
8. Solving word and picture problems – addition and subtraction
 | 1. Measuring in centimetres
2. Measuring in metres
3. Comparing lengths
4. Ordering lengths
5. Solving word problems - length
 | 1. Identifying angles
2. Comparing and ordering angles
3. Identifying regular and irregular shapes
4. Classifying triangles
5. Classifying and comparing quadrilaterals
6. Deducing facts about shapes
7. Lines of symmetry inside a shape
8. Lines of symmetry outside a shape
9. Completing a symmetric figure
10. Completing a symmetric shape
 | 1. Writing decimals (1)
2. Writing decimals
3. Decimals as fractions (1)
4. Decimals as fractions (2)
5. Understanding thousandths
6. Writing thousandths as decimals
7. Ordering and comparing decimals (1)
8. Ordering and comparing decimals (2)
9. Rounding decimals
10. Understanding percentages
11. Percentages as fractions and decimals
12. Equivalent fractions, decimals and percentages
 | 1. Measuring with a protractor
2. Drawing shapes accurately
3. Angles in triangles (1)
4. Angles in triangles (2)
5. Angles in triangles (3)
6. Angles in polygons (1)
7. Angles in polygons (2)
8. Vertically opposite angles
9. Equal distance
10. Parts of a circle
11. Nets (1)
12. Nets (2)
 |
| * 1AS–2 Read, write and interpret equations containing addition (+), subtraction (–) and equals (=) symbols, and relate additive expressions and equations to real life contexts.
 | * 4G–2 Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons.
* 4G–3 Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry.
 | * 5NPV–1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.
* 5NPV–2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard partitioning.
* 5F–3 Recall decimal fraction equivalents for 1/2, 1/4, 1/5 and 1/10, and for multiples of these proper fractions.
 | * 6G–1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.
 |
| **Summer 1** | **Unit 9 (1B)****Numbers to 50** | **Unit 10 (2B)****Fractions** | **Unit 6 (3B)****Money** | **Unit 16 (4C)****Geometry – position and direction** | **Unit 12 (5C)****Decimals** | **Unit 15 (6C)****Statistics** |
| 1. Counting to 50 (1)
2. Counting to 50 (2)
3. Tens and ones
4. Representing numbers to 50
5. Comparing numbers of objects
6. Comparing numbers
7. Ordering objects and numbers
8. Counting in 2s
9. Counting in 5s
10. Solving word problems – addition and subtraction (1)
11. Solving word problems – addition and subtraction (2)
 | 1. Introducing whole and parts
2. Making equal parts
3. Recognising a half (1/2)
4. Finding a half
5. Recognising a quarter (1/4)
6. Finding a quarter
7. Unit fractions
8. Understanding other fractions
9. 1/2 and 2/4
10. Finding 3/4
11. Understanding a whole
12. Understanding whole and parts
13. Counting in halves
14. Counting in quarters
 | 1. Pounds and pence
2. Converting pounds and pence
3. Adding money
4. Subtracting amounts of money
5. Problem solving - money
 | 1. Describing position (1)
2. Describing position (2)
3. Drawing on a grid
4. Reasoning on a grid
5. Moving on a grid
6. Describing a movement on a grid
 | 1. Adding and subtracting decimals (1)
2. Adding and subtracting decimals (2)
3. Adding and subtracting decimals (3)
4. Adding and subtracting (4)
5. Adding and subtracting decimals (5)
6. Adding and subtracting decimals (6)
7. Adding and subtracting decimals (7)
8. Adding and subtracting decimals (8)
9. Decimal sequences
10. Problem solving – decimals (1)
11. Problem solving – decimals (2)
12. Multiplying decimals by 10
13. Multiplying decimals by 10, 100 and 1000
14. Dividing decimals by 10
15. Dividing decimals by 10, 100 and 1000
 | 1. The mean
2. The mean (2)
3. The mean (3)
4. Introducing pie charts
5. Reading and interpreting pie charts
6. Fractions and pie charts (1)
7. Fractions and pie charts (2)
8. Percentages and pie charts
9. Interpreting line graphs
10. Constructing line graphs
 |
| * 1NPV–1 Count within 100, forwards and backwards, starting with any number.
* 1NF–2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers.
* 1AS–2 Read, write and interpret equations containing addition (+), subtraction (–) and equals (=) symbols, and relate additive expressions and equations to real-life contexts
 | * 4G–1 Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant.
 | * 6NPV–4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts.
 |
| **Unit 12 (1C)****Multiplication** | **Unit 11 (2C)****Position and direction**  | **Unit 7 (3B)****Statistics** | **Unit 7 (4B)****Measure - area** | **Unit 13 (5C)****Geometry – properties of shape (1)** | **Unit 6 (6A)****Geometry – position and direction** |
| 1. Counting in 10s, 5s and 2s
2. Making equal groups
3. Adding equal groups
4. Making simple arrays
5. Making doubles
6. Solving word problems - multiplication
 | 1. Describing a movement
2. Describing turns
3. Describing movement and turns
4. Making patterns with shapes
 | 1. Pictograms (1)
2. Pictograms (2)
3. Bar charts (1)
4. Bar charts (2)
5. Tables
 | 1. What is areas?
2. Counting squares (1)
3. Counting squares (2)
4. Making shapes
5. Comparing area
 | 1. Measuring angles in degrees
2. Measuring with a protractor (1)
3. Measuring with a protractor (2)
4. Drawing lines and angles accurately
5. Calculating angles on a straight line
6. Calculating angles around a point
7. Calculating lengths and angles in shapes
 | 1. Plotting coordinates in the first quadrant
2. Plotting coordinates
3. Plotting translations and reflections
4. Reasoning about shapes with coordinates
 |
| * 1NF–2 Count forwards and backwards in multiples of 2, 5 and 10, up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers.
 | * 5G–1 Compare angles, estimate and measure angles in degrees (°) and draw angles of a given size.
 |
| **Unit 16 (1C)****Numbers to 100** | **Unit 13 (2C)****Time** | **Unit 8 (3B)****Length** | **Unit 10 (4B)****Decimals (1)** | **Unit 14 (5C)****Geometry – properties of shapes (2)** | **Unit 8 (6B)****Percentages** |
| 1. Counting to 100
2. Exploring number patterns
3. Partitioning numbers (1)
4. Partitioning numbers (2)
5. Comparing numbers (1)
6. Comparing numbers (2)
7. Ordering numbers
8. Bonds to 100 (1)
9. Bonds to 100 (2)
 | 1. Telling and writing time to the hour and the half hour
2. Telling time to the quarter hour
3. Telling time to 5 minutes
4. Minutes in an hour
5. Finding durations of time
6. Comparing durations of time
7. Finding the end time
8. Finding the start time
9. Hours in a day
 | 1. Measuring length (1)
2. Measuring length (2)
3. Equivalent lengths – metres and centimetres
4. Equivalent lengths – centimetres and millimetres
5. Comparing lengths
6. Adding lengths
7. Subtracting lengths
8. Measuring the perimeter (1)
9. Measuring the perimeter (2)
10. Problem solving – length (1)
11. Problem solving length (2)
 | 1. Tenths (1)
2. Tenths (2)
3. Tenths (3)
4. Dividing by 10 (1)
5. Dividing by 10 (2)
6. Hundredths (1)
7. Hundredths (2)
8. Hundredths (3)
9. Dividing by 100
10. Dividing by 10 and 100
 | 1. Recognising and drawing parallel lines
2. Recognising and drawing perpendicular lines
3. Reasoning about parallel and perpendicular lines
4. Regular and irregular polygons
5. Reasoning about 3D shapes
 | 1. Percentage of (1)
2. Percentage of (2)
3. Percentage of (3)
4. Percentage of (4)
5. Finding missing values
6. Converting fractions to percentages
7. Equivalent fractions, decimals and percentages (1)
8. Equivalent fractions, decimals and percentages (2)
9. Mixed problem solving
 |
| * 1NPV–1 Count within 100, forwards and backwards, starting with any number.
 |
| **Unit 10 (1B)****Introducing length and height** |
| 1. Comparing lengths and heights
2. Non-standard units of measure (1)
3. Non-standard units of measure (2)
4. Measuring length using a ruler
5. Solving word problems - length
 |
| **Summer 2** | **Unit 11 (1B)****Introducing weight and volume** | **Unit 14 (2C)****Weight, volume and temperature** | **Unit 11 (3C)****Time** | **Unit 11 (4C)****Decimals (2)** | **Unit 15 (5C)****Geometry – position and direction** | **Unit 14 (6C)****Problem solving** |
| 1. Comparing weight
2. Measuring weight
3. Comparing weight using measuring
4. Comparing capacity
5. Measuring capacity
6. Comparing capacity using measuring
7. Solving word problems – weight and capacity
 | 1. Comparing mass
2. Measuring mass in grams (1)
3. Measuring mass in grams (2)
4. Measuring mass in kilograms
5. Comparing volume
6. Measuring volume in millilitres (1)
7. Measuring volume in millilitres (2)
8. Measuring volume in litres
9. Measuring temperatures using a thermometer
10. Reading thermometers
 | 1. Months and years
2. Hours in a day
3. Estimating time
4. Telling time to 5 minutes
5. Telling time to the minute (1)
6. Telling time to the minute (2)
7. Telling time to the minute (3)
8. Finding the duration
9. Comparing duration
10. Finding the start and end times
11. Measuring time in seconds
 | 1. Making a whole
2. Writing decimals
3. Comparing decimals
4. Ordering decimals
5. Rounding decimals
6. Halves and quarters
 | 1. Reflection
2. Reflection with coordinates
3. Translation
4. Translation with coordinates
 | 1. Problem solving – place value
2. Problem solving – negative numbers
3. Problem solving – addition and subtraction
4. Problem solving – four operations (1)
5. Problem solving – four operations (2)
6. Problem solving – fractions
7. Problem solving – decimals
8. Problem solving – percentages
9. Problem solving – ratio and proportion
10. Problem solving – time (1)
11. Problem solving – time (2)
12. Problem solving – position and direction
13. Problem solving – properties of shapes (1)
14. Problem solving – properties of shapes (2)
 |
| **Unit 13 (1C)****Division** | **Unit 13 (3C)****Mass** | **Unit 12 (4C)****Money** | **Unit 16 (5C)****Measure – converting units** |
| 1. Making equal groups (1)
2. Making equal groups (2)
3. Sharing equally (1)
4. Sharing equally (2)
5. Solving word problems - division
 | 1. Measuring mass (1)
2. Measuring mass (2)
3. Measuring mass (3)
4. Comparing masses
5. Adding and subtracting masses
6. Problem solving - mass
 | 1. Pounds and pence
2. Pounds, tenths and hundredths
3. Ordering amounts of money
4. Rounding money
5. Using rounding to estimate money
6. Problem solving – pounds and pence
7. Problem solving – multiplication and division
8. Solving two-step problems
9. Problem solving - money
 | 1. Metric units (1)
2. Metric units (2)
3. Metric units (3)
4. Metric units (4)
5. Imperial units of length
6. Imperial units of mass
7. Imperial units of capacity
8. Converting units of time
9. Timetables
10. Problem solving – measure
 |
| * 5NPV–5 Convert between units of measure, including using common decimals and fractions.
 |
| **Unit 14 (1C)****Halves and quarters** | **Unit 14 (3C)****Capacity** | **Unit 13 (4C)****Time** | **Unit 17 (5C)****Measure – volume and capacity** |
| 1. Finding halves (1)
2. Finding halves (2)
3. Finding quarters (1)
4. Finding quarters (2)
5. Solving word problems – halves and quarters
 | 1. Measuring capacity (1)
2. Measuring capacity (2)
3. Measuring capacity (3)
4. Comparing capacities
5. Adding and subtracting capacities
6. Problem solving - capacity
 | 1. Units of time (1)
2. Units of time (2)
3. Converting times (1)
4. Converting times (2)
5. Problem solving – units of time
 | 1. What is volume?
2. Comparing volumes
3. Estimating volume
 |
| **Unit 15 (1C)****Position and direction** | **Unit 14 (4C)****Statistics** |
| 1. Describing turns
2. Describing positions (1)
3. Describing positions (2)
 | 1. Charts and tables (1)
2. Charts and tables (2)
3. Line graphs (1)
4. Line graphs (2)
5. Problem solving - graphs
 |
| **Unit 17 (1C)****Time** |
| 1. Using before and after
2. Using a calendar
3. Telling time to the hour
4. Telling time to the half hour
5. Writing time
6. Comparing time
7. Solving word problems - time
 |
| **Unit 18 (1C)****Money** |
| 1. Recognising coins
2. Recognising notes
3. Counting with coins
 |