	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
EYFS	**Unit 1 Counting and number (1)** - Recite the order of the number words to at least 5 - Count reliably at least 5 objects, recognising that when rearranged the number of objects stays the same - Understand that the last number in the count represents the set as a whole - Sort and match objects in a set **Unit 2 Counting and number (2)** - Recite the order of the number words to at least 10 - Count at least 10 objects with 1:1 correspondence, with accurate partitioning - Count sounds and objects without touching them - Subitise (recognise quantities without counting) up to 5 - Estimate the number of objects to 5 in a set and count to check - Recognise and begin to write numerals to 5 - Count and match objects to numerals to 5 **Unit 3 Shape, pattern and position (1)** - Describe and sort natural shapes - Arrange and describe simple linear patterns involving objects and shapes - Build and describe models made with boxes and objects - Sort objects in different ways and describe why they were sorted in that way	**Unit 4 Measures and time (1)** - Use everyday language to talk about size, weight, capacity - Compare two items by length or height and say which is longer and which is shorter - Compare two items by weight and say which is heavier and which is lighter - Compare the capacity of two containers and say which holds more - Use language related to time such as before, after, long time, short time - Recognise things that happen in the morning, afternoon and night - Recognise and name days of the week, using them in context **Unit 5 Counting and number (3)** - Count forwards and backwards to 5 - Count reliably at least 10 objects, recognising that when rearranged the number of objects stays the same - Recognise numerals to 10 in the environment - Recognise zero as the empty set - Write numerals to 5 - Match numerals to 5 to a given number of objects **Unit 6 Addition and subtraction (1)** - Add one more to a set of objects to 5 and say how many - Take one away from a set of objects to 5 and say how many - Combine and count all the objects in two sets to make a total up to 5 - Partition numbers to 5 in different way	**Unit 7 Shape, pattern and position (2)** - Make patterns with objects and shapes - Draw pictures and patterns using 2D shapes - Build and describe models made with construction kits - Compare shapes in the environment and recognise similarities and differences - Describe where objects are using positional words, eg 'under', 'next to', 'over' **Unit 8 Counting and number (4)** - Count forwards and backwards along a number track to 10 - Estimate the number of objects to 10 in a set and count to check - Use before, after, next, middle to describe the position of numbers on a number track - Represent numbers to 10 using fingers or marks on paper - Write numerals to 10 - Count and match objects to numerals to 10 **Unit 9 Money (1)** - Sort coins and make sets - Recognise and name 1p, 2p, 5p and 10p coins - Match 1p, 2p, 5p and 10p coins - Know the value of 1p, 2p, 5p and 10p coins	**Unit 10 Addition and subtraction (2)** - Add one more to a set of objects to 10 and say how many - Take one away from a set of objects to 10 and say how many - Combine and count all the objects in two sets to make a total up to 10 - Add objects to a set of up to 10 objects and work out the total - Subtract objects from a set of up to 10 objects and work out the number left **Unit 11 Shape, pattern and position (3)** - Make pictures and patterns with lines - Recognise and name squares, triangles and circles in the environment - Describe flat shapes and compare properties, such as the number of sides - Recognise and name some solid shapes, including cube and cylinder - Sort solid shapes and compare properties, such as whether they roll or stack **Unit 12 Measures and time (2)** - Compare and order the length or height of three or more items - Compare and order the weight of three or more items - Compare and order the capacity of three or more containers - Sequence everyday activities and events - Use simple timing methods to measure short periods of time - Know some of the important months of the year, including birthdays and festivals	**Unit 13 Addition and subtraction (3)** - Partition numbers to 10 in different ways - Combine and count all the objects in two sets to make a total up to 10, counting on from one of the sets - Count on from a number on a number line to 10 to add numbers together - Count back from a number on a number line to 10 to take away a number **Unit 14 Money (2)** - Recognise, name and match 20p, 50p and £1 coins - Exchange 1p, 2p and 5p coins for 10p - Use 1p and 2p coins to make totals to 10p - Take away 1p coins from small amounts to give change **Unit 15 Counting and number (5)** - Count and know the position of numbers on a number track to 20 - Use first, second and last to describe position in order - Count a given number of objects from a larger set up to 20 - Put objects into equal groups of 2, 5 or 10 and count the groups and totals - Put sets of objects of the same number together and relate to doubling - Share objects equally between two and relate to halving	**Unit 16 Shape, pattern and position (4)** - Sort and re-sort shapes and describe properties - Name shapes, describing some generalised properties of each shape - Make repeating patterns with shapes - Identify shapes in different positions and orientations - Recognise the face shapes of solid shapes - Recognise simple shapes and objects that show reflection and symmetry **Unit 17 Addition and subtraction (4)** - Combine and count all the objects in two sets to make a total up to 10, counting on from the largest set - Use a number line to add and subtract numbers - Find the difference between two lines of cubes by comparing and counting - Solve problems involving a 'hidden' number of objects and totals - Know some pairs of numbers that total five **Unit 18 Measures and time (3)** - Use uniform non-standard units such as cubes to measure lengths - Use uniform non-standard units on a balance to measure weights - Use the language of approximation to compare capacities and check by pouring - Recognise a minute as a unit of time - Recognise some hour times on analogue and digital clocks

Year 1	Unit 1 Number and place value (1)	Unit 4 Measures (1)	Unit 7 Addition and subtraction (2)	Unit 10 Measures (2)	Unit 13 Number and place value (3)	Unit 16 Measures (3)

Year 1

Unit 1 Number and place value (1)
- Count reliably at least 20 objects, recognising that when rearranged the number of objects stays the same
- Count to and across 20, forwards and backwards, beginning with 0 or 1, or from any given number
- Read, write, compare and order numbers to 20, partitioning 'teen' numbers

Unit 2 Addition and subtraction (1)
- Say the number that is one more or less than any given number to 20
- Relate addition to counting on and recognise that addition can be done in any order
- Use practical and informal written methods to derive and recall number bonds to 10 and related subtraction facts

Unit 3 Shapes and patterns (1)
- Describe and arrange simple patterns involving objects and shapes
- Recognise and name common 2-D and 3-D shapes and describe their features; use them to make patterns, pictures and models

Unit 4 Measures (1)
- Estimate, compare and describe length, height, mass and capacity
- Measure length, height, mass and capacity choosing and using suitable uniform non-standard or standard units and measuring instruments

Unit 5 Fractions, position and movement (1)
- Recognise a half as one of two equal parts of an object, shape or quantity
- Group and share equally a small number of objects and relate to halves
- Visualise and use everyday language to describe the position, direction and movement of objects, including full and half-turns
- Sequence events in chronological order

Unit 6 Number and place value (2)
- Count to 50, forwards and backwards, beginning with 0 or 1, or from any given number
- Read, write, compare and order numbers to 50
- Say the number that is one more or less than any given number to 50
- Recognise and know the value of coins

Unit 7 Addition and subtraction (2)
- Use the addition (+), subtraction (-) and equals (=) signs
- Find the total by combining two groups
- Understand subtraction as take away
- Derive and recall number bonds to 10 and related subtraction facts

Unit 8 Multiplication and division (1)
- Describe simple patterns and relationships involving numbers
- Count on or back in ones, twos and tens
- Recall the doubles of all numbers to at least ten
- Group small quantities into twos and share equally

Unit 9 Shapes and patterns (2)
- Describe and arrange simple patterns involving objects and shapes
- Recognise and name common 2-D and 3-D shapes and describe their features; use them to make patterns, pictures and models

Unit 10 Measures (2)
- Estimate, compare and describe length, height, mass and capacity
- Measure length, height, mass and capacity choosing and using suitable uniform non-standard or standard units and measuring instruments

Unit 11 Fractions, position and movement (2)
- Recognise and name a half as one of two equal parts of an object, shape or quantity
- Recognise and name a quarter as one of four equal parts of an object, shape or quantity
- Group and share equally a small number of objects and relate to halves
- Visualise and use everyday language to describe the position, direction and movement of objects
- Identify objects that turn; recognise and make whole, half and quarter-turns
- Use vocabulary related to time; order days of the week and months; read the time to the hour

Unit 12 Multiplication and division (2)
- Count on or back in ones, twos, fives and tens and use this knowledge to derive the multiples of two, five and ten
- Recall the doubles of all numbers to at least ten
- Group small quantities into 2s, 5s and 10s and share them equally

Unit 13 Number and place value (3)
- Count to 100, forwards and backwards from any given number
- Read, write, compare and order numbers to 100
- Read and write number words to 20
- Say the number that is one more or less than any given number to 100
- Recognise and know the value of different denominations of coins and notes

Unit 14 Addition and subtraction (3)
- Represent and use number bonds to 20 and related subtraction facts
- Use the addition (+), subtraction (-) and equals (=) signs
- Add and subtract one-digit and two-digit numbers to 20 (9 + 9, 18 - 9), including zero

Unit 15 Shapes and patterns (3)
- Describe and arrange simple patterns involving objects and shapes
- Recognise and name common 2-D and 3-D shapes and describe their features; use them to make patterns, pictures and models

Unit 16 Measures (3)
- Estimate, compare and describe length, height, mass and capacity
- Measure length, height, mass and capacity choosing and using suitable uniform non-standard or standard units and measuring instruments

Unit 17 Multiplication and division (3)
- Count on or back in ones, twos, fives and tens and use this knowledge to derive the multiples of 2, 5 and 10 to the tenth multiple
- Solve practical problems that involve combining groups of 2, 5 or 10, or sharing into equal groups
- Recall the doubles of all numbers to at least 10

Unit 18 Fractions, position and movement (3)
- Recognise, find and name a half as one of two equal parts of an object, shape or quantity
- Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity
- Visualise and use everyday language to describe the position, direction and movement of objects
- Recognise and make whole, half, quarter and three-quarter turns
- Order days of the week and months and read the time to the hour and half hour

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Year 2

Unit 1 Number and place value (1)
- Count in steps of 1, 2, 5 and 10, from any number forwards or backwards
- Read and write two-digit numbers as numerals and in words
- Recognise the place value of each digit in a two-digit number

Unit 4 Measures (1)
- Estimate, compare and order length, height, mass and capacity
- Measure length, height, mass and capacity choosing and using suitable standard units and measuring instruments
- Read the numbered divisions on a scale and interpret the divisions between them

Unit 7 Addition and subtraction (2)
- Add or subtract mentally a one-digit number or a multiple of 10 to or from any two-digit number
- Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100

Unit 10 Measures (2)
- Estimate, compare and order length, height, mass and capacity
- Measure length, height, mass, capacity and temperature, choosing and using suitable standard units and measuring instruments

Unit 13 Number and place value (3)
- Read and write numbers up to and beyond 100
- Describe and extend number sequences, including counting in 3s
- Explain what each digit in a two-digit number represents, demonstrating their understanding using different representations

Unit 16 Measures (3)
- Estimate, compare and order length, height, mass and capacity
- Measure length, height, mass, capacity and temperature, choosing and using suitable standard units and measuring instruments

- Compare and order two-digit numbers

Unit 2 Addition and subtraction (1)
- Add and subtract one-digit and two-digit numbers to 20 (9 + 9, 18 - 9), including zero
- Use the addition (+), subtraction (-) and equals (=) signs
- Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
- Understand that subtraction is the inverse of addition and vice versa
- Find the difference between two numbers by counting on

Unit 3 Shapes and patterns (1)
- Describe patterns and relationships involving shapes, make predictions and test these with examples
- Visualise common 2-D shapes and 3-D solids; identify shapes from pictures of them in different positions and orientations
- Sort, make and describe 2-D and 3-D shapes, referring to their properties

- Use a ruler to draw and measure lines to the nearest centimetre

Unit 5 Fractions, position and movement (1)
- Recognise, find, name and write one-half and one-quarter of shapes, lengths and quantities
- Recognise and use whole, half, quarter and three-quarter turns, both clockwise and anticlockwise
- Describe, follow and give instructions involving position, direction and movement
- Use units of time and know the relationships between them
- Read and write the time to the quarter hour

Unit 6 Number and place value (2)
- Read and write numbers to 100 and beyond as numerals and in words
- Describe and extend number sequences and recognise odd and even numbers
- Explain what each digit in a two-digit number represents
- Partition two-digit numbers in different ways, including into multiples of 10 and 1
- Use the greater than (>) and less than (<) signs
- Recognise and use symbols for pounds (£) and pence (p) and combine amounts to make a particular value

- Use practical and informal written methods to add and subtract two-digit numbers
- Recognise and use the inverse relationship between addition and subtraction
- Add and subtract money of the same unit, including giving change

Unit 8 Multiplication and division (1)
- Count on or back in twos, fives and tens and use this knowledge to derive the multiples of 2, 5 and 10 to the tenth multiple and beyond
- Represent repeated addition and arrays as multiplication, and sharing and repeated subtraction (grouping) as division
- Derive and recall multiplication facts for the 2, 5 and 10 times-tables and the related division facts
- Understand that halving is the inverse of doubling and derive and recall doubles of all numbers to 20, and the corresponding halves
- Use the symbols ×, ÷ and = to record and interpret number sentences

Unit 9 Shapes and patterns (2)
- Describe patterns and relationships involving shapes, make predictions and test these with examples
- Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- Sort, make and describe 2-D and 3-D shapes, referring to their properties
- Identify reflective symmetry in patterns and

- Read the numbered divisions on a scale and interpret the divisions between them
- Use a measuring jug to measure the capacity of different containers

Unit 11 Fractions, position and movement (2)
- Recognise, find, name and write one-half, one-quarter and three-quarters of shapes, lengths and quantities
- Recognise and use whole, half, quarter and three-quarter turns, both clockwise and anticlockwise
- Know that a right angle represents a quarter turn
- Describe, follow and give instructions involving position, direction and movement
- Use units of time and know the relationships between them
- Read and write the time to the quarter hour

Unit 12 Multiplication and division (2)
- Recognise and use the inverse relationship between multiplication and division in calculations
- Recall and use multiplication facts for the 2, 5 and 10 times-tables and the related division facts
- Show that multiplication of two numbers can be done in of one number by another cannot
- Recognise multiples of 2, 5 and 10

- Partition two-digit numbers in different ways, using multiples of 10 and 1

- Compare and order numbers and estimate numbers represented on a number line

Unit 14 Addition and subtraction (3)
- Add or subtract mentally a one-digit number or a multiple of 10 to or from any two-digit number
- Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
- Use the inverse relationship between addition and subtraction to calculate the value of an unknown in a number sentence (e.g. □ + 2 = 14, 30 − □ = 24)
- Use more formal written methods to add and subtract two-digit numbers
- Add and subtract money of the same unit, including giving change

Unit 15 Shapes and patterns (3)
- Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- Identify and describe the properties of 2-D shapes, including 2-D shapes on the surface of 3-D shapes
- Compare and sort common 2-D and 3-D shapes and everyday objects.
- Identify reflective symmetry in patterns and 2-D shapes and draw lines of symmetry in shapes

- Read the numbered divisions on a scale and interpret the divisions between them
- Use weighing scales to measure the mass of different objects

Unit 17 Multiplication and division (3)
- Use practical and informal written methods and related vocabulary to support multiplication and division, including calculations with remainders
- Use the symbols ×, ÷ and = to record and interpret number sentences and calculate the value of an unknown in a number sentence (e.g. □ ÷ 2 = 6, 3 x □ = 30)
- Recall and use multiplication facts for the 2, 5 and 10 times-tables and the related division facts
- Recognise multiples of 2, 5 and 10 beyond the 10th multiple

Unit 18 Fractions, position and movement (3)
- any order (commutative) and division Recognise, find, name and write one-half, one-quarter, three-quarters and one-third of shapes, lengths and quantities
- Recognise the equivalence of two quarters and one half
- Recognise and use whole, half, quarter and three-quarter turns, both clockwise and anticlockwise
- Know that a right angle represents a quarter turn and that two right angles make a straight line
- Describe, follow and give instructions involving position, direction and movement
- Read and write the time to five minutes
- Identify time intervals, including those that cross the hour

			2-D shapes and draw lines of symmetry in shapes			
Year 3	**Unit 1 Number and place value (1)** - Count from and back to zero in single-digit steps or multiples of 10 - Partition two-digit numbers into multiples of 10 and 1 in different ways - Recognise the place value of each digit in a three-digit number - Read, write and order whole numbers to 1000 and position them on a number line **Unit 2 Addition and subtraction (1)** - Derive and recall all addition and subtraction facts for each number to 20, and sums and differences of multiples of 10 and 100 - Use the inverse relationship between addition and subtraction to calculate the value of an unknown in a number sentence (e.g. □ + 2 = 14, 30 − □ = 24) - Use formal written methods to add and subtract two-digit numbers and three digit numbers - Recognise the value of coins and add and subtract money, including giving change **Unit 3 Shape and symmetry (1)** - Draw 2-D shapes and make 3-D shapes using modelling materials - Relate 2-D shapes and 3-D solids to drawings of them; describe, visualise and classify the shapes - Recognise, draw and complete shapes with reflective symmetry	**Unit 4 Measures (1)** - Know the relationships between kilometres and metres, metres and centimetres, kilograms and grams, litres and millilitres - Choose and use appropriate units to estimate, measure and record measurements - Read, to the nearest division and half-division, scales that are numbered or partially numbered - Read the time on a 12-hour digital clock and to the nearest 5 minutes on an analogue clock - Compare durations of events and calculate the time taken by particular events or tasks **Unit 5 Multiplication and division (1)** - Know the number of seconds in a minute and the number of days in each month, year and leap year - Recall and use multiplication facts for the 2, 3, 4, 5 and 10 times-tables and the related division facts - Recognise multiples of 2, 3, 4, 5 and 10 beyond the 10th multiple - Understand that division is the inverse of multiplication and vice versa; use this to derive and record related multiplication and division number sentences - Use practical and informal written methods to multiply and divide two-digit numbers (e.g. 13 × 3, 48 ÷ 4) **Unit 6 Fractions and decimals (1)** - Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts - Recognise, find and write unit fractions of numbers and	**Unit 7 Position, movement and angle (1)** - Recognise angles as a property of shape and associate angles with turning - Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn - Use the four compass directions to describe movement - Identify horizontal, vertical, perpendicular and parallel lines in relation to other lines. **Unit 8 Shape and symmetry (2)** - Draw 2-D shapes and make 3-D shapes using modelling materials - Relate 2-D shapes and 3-D solids to drawings of them; describe, visualise and classify the shapes - Draw the reflection of a shape in a mirror line along one side **Unit 9 Fractions and decimals (2)** - Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 - Read and write proper fractions (e.g. 3/7, 9/10), interpreting the denominator as the parts of a whole and the numerator as the number of parts - Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	**Unit 10 Measures (2)** - Estimate, measure and compare lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) - Know the relationships between kilometres and metres, metres and centimetres, kilograms and grams, litres and millilitres - Read, to the nearest division and half-division, scales that are numbered or partially numbered - Estimate, read, record and compare times to the nearest 5 minutes, using analogue and digital clocks - Compare durations of events and calculate the time taken by particular events or tasks **Unit 11 Multiplication and division (2)** - Recall and use multiplication facts for the 2, 3, 4, 5, 6 and 10 times-tables and the related division facts - Recognise multiples of 2, 3, 4, 5, 6 and 10 beyond the 10th multiple - Develop efficient mental methods to multiply larger numbers - Use reliable written methods to multiply and divide two-digit numbers (e.g. 23 × 3, 50 ÷ 4) and round remainders up or down, depending on the context **Unit 12 Number and place value (2)** - Count on from and back to zero in single-digit steps or multiples of 10 and 100 - Partition three-digit numbers into multiples of 100, 10 and 1 in different ways - Read, write, compare and order whole numbers to at least 1000	**Unit 13 Addition and subtraction (2)** - Add or subtract mentally three-digit numbers and ones, tens and hundreds - Add or subtract two-digit numbers mentally - Use formal written methods to add and subtract numbers with up to three digits - Add and subtract amounts of money to give change, using both £ and p in practical contexts **Unit 14 Shape and symmetry (3)** - Draw 2-D shapes and make 3-D shapes using modelling materials - Relate 2-D shapes and 3-D solids to drawings of them; describe, visualise and classify the shapes - Draw the reflection of a shape in a mirror line along one side - Measure the perimeter of simple 2-D shapes **Unit 15 Measures (3)** - Estimate, measure, compare, add and subtract lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) - Know the relationships between kilometres and metres, metres and centimetres, kilograms and grams, litres and millilitres - Read scales that are numbered or partially numbered; use the information to measure to a suitable degree of accuracy - Estimate, read, record and compare times to the nearest minute, using analogue and digital clocks - Compare durations of events and calculate the time taken by particular events or tasks	**Unit 16 Multiplication and division (3)** - Calculate the value of an unknown in a number sentence (e.g. □ ÷ 4 = 6, 3 x □ = 36) - Recall and use multiplication facts for the 2, 3, 4, 5, 6, 8 and 10 times-tables and the related division facts - Recognise multiples of 2, 3, 4, 5, 6 and 10 beyond the 10th multiple - Develop efficient mental methods to multiply larger numbers - Use reliable written methods to multiply and divide two-digit numbers (e.g. 23 × 3, 50 ÷ 4) and round remainders up or down, depending on the context **Unit 17 Fractions and decimals (3)** - Recognise and use fractions as numbers on a number line: unit fractions and non-unit fractions with small denominators - Use diagrams to recognise and show equivalent fractions - Compare and order unit fractions with the same denominator - Add and subtract fractions with the same denominator within one whole (eg 5/7 + 1/7 = 6/7) - Connect tenths to place value and decimal measures, not restricted to decimals between 0 and 1 inclusive and to division by 10 **Unit 18 Position, movement and angle (2)** - Recognising angles as a property of shape and associate angles with turning

	quantities (e.g. 1/2, 1/3, 1/4 and 1/6 of 12 litres) – Read and write proper fractions (e.g. 3/7, 9/10), interpreting the denominator as the parts of a whole and the numerator as the number of parts	– Use diagrams to recognise and show equivalent fractions	– Round two-digit or three-digit numbers to the nearest 10 or 100 and give estimates for their sums and differences		– Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn – Use the four compass directions to describe movement about a grid – Identify horizontal, vertical, perpendicular and parallel lines in relation to other lines
Year 4	**Unit 1 Number and place value (1)** – Recognise the place value of each digit in a four-digit number – Compare, order and round four-digit whole numbers – Count forwards and backwards in tens, hundreds and thousands and other multiples – Multiply and divide numbers to 1000 by 10 and then 100 (whole-number answers), understanding the effect – Use positive and negative numbers in context and position them on a number line – Read Roman numerals to 20 (I to XX) **Unit 2 Addition and subtraction (1)** – Use knowledge of addition and subtraction facts and place value to derive sums and differences of pairs of multiples of 10, 100 or 1000 – Add or subtract mentally pairs of two-digit whole numbers – Use efficient written methods to add and subtract three-digit whole numbers and £.p **Unit 3 Shape and symmetry (1)** – Compare and draw polygons and classify them by identifying their properties – Visualise 3-D objects from 2-D drawings and make 3-D models using construction kits – Identify lines of symmetry in 2-D shapes	**Unit 4 Measures (1)** – Choose and use standard metric units and their abbreviations when estimating, measuring and recording length, mass and capacity – Interpret intervals and divisions on partially numbered scales and record readings accurately – Read time to the nearest minute; use a.m., p.m. and 12-hour clock notation – Choose units of time to measure time intervals and calculate time intervals from clocks and timetables **Unit 5 Multiplication and division (1)** – Recall multiplication facts up to 12 × 12 and derive the corresponding division facts – 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 – Use written methods to record and explain multiplication of two-digit numbers by a one-digit number – Use written methods to record and explain division of three-digit numbers by a one-digit number, with whole number answers **Unit 6 Fractions and decimals (1)** – Count in tenths and recognise the equivalence between	**Unit 7 Position, movement and angle (1)** – Recognise horizontal, vertical, perpendicular and parallel lines in relation to other lines – Identify acute, obtuse and right angles – Know that angles are measured in degrees and that one whole turn is 360° – Use the eight compass points to describe direction – Describe and identify positions and plot points on a grid of squares **Unit 8 Shape and symmetry (2)** – Compare and draw polygons and classify them by identifying their properties – Visualise 3-D objects from 2-D drawings and make 3-D models using construction kits – Identify lines of symmetry in 2-D shapes and patterns – Identify right angles in 2-D shapes – Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres **Unit 9 Fractions and decimals (2)** – Count in tenths and hundredths and recognise the equivalence between decimal and fraction forms of tenths and hundredths – Compare, order and round decimal numbers with one decimal place	**Unit 10 Measures (2)** – Choose and use standard metric units and their abbreviations when estimating, measuring and recording length, mass and capacity – Interpret intervals and divisions on partially numbered scales and record readings accurately, where appropriate to the nearest tenth of a unit – Use decimal notation for tenths and relate the notation to measurement – Read time to the nearest minute; use a.m., p.m. and 12-hour clock notation – Choose units of time to measure time intervals and calculate time intervals from clocks and timetables **Unit 11 Multiplication and division (2)** – Recall multiplication facts up to 12 × 12 and derive the corresponding division facts – 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 – Use written methods to record and explain multiplication of two-digit numbers by a one-digit number – Use written methods to record and explain division of three-digit numbers by a one-	**Unit 13 Addition and subtraction (2)** – Use knowledge of addition and subtraction facts and place value to derive sums and differences of pairs of multiples of 10, 100 or 1000 – Add or subtract mentally pairs of two-digit whole numbers – Use efficient written methods to add and subtract four-digit whole numbers and £.p – Use knowledge of rounding, number operations and inverses to estimate and check calculations **Unit 14 Shape and symmetry (3)** – Compare and draw polygons and classify them by identifying their properties, including their line symmetry – Visualise 3-D objects from 2-D drawings and make 3-D models using construction kits – Make nets of common solids – Identify lines of symmetry in 2-D shapes and patterns – Identify right angles, acute angles and obtuse angles in 2-D shapes – Find the area of rectilinear shapes by counting squares **Unit 15 Measures (3)** – Use decimal notation for tenths and hundredths and relate the notation to money and measurement – Choose and use standard metric units and their abbreviations when estimating, measuring and	**Unit 16 Multiplication and division (3)** – Recall multiplication and division facts up to 12 × 12 – 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 – Use written methods to record and explain multiplication and division of three-digit numbers by a one-digit number, including division with remainders **Unit 17 Fractions and decimals (3)** – Recognise the equivalence between decimal and fraction forms of one half, quarters, tenths and hundredths – Identify, name and write equivalent fractions of a given fraction, including tenths and hundredths – Interpret mixed numbers and position them on a number line – Find fractions of numbers, quantities or shapes – Add and subtract fractions with the same denominator **Unit 18 Position, movement and angle (2)** – Recognise horizontal, vertical, perpendicular and parallel lines in relation to other lines – Identify acute and obtuse angles and compare and order angles less than 180˚ – Use the eight compass points to describe direction

	- Complete symmetrical patterns drawn on squared paper - Identify right angles in 2-D shapes·	decimal and fraction forms of tenths - Use diagrams to identify equivalent fractions - Identify pairs of fractions that total 1 - Find fractions of numbers, quantities or shapes	- Use diagrams to identify equivalent fractions - Find fractions of numbers, quantities or shapes - Use diagrams to add and subtract pairs of fractions with the same denominator	digit number, with whole number answers - Use knowledge of rounding, number operations and inverses to estimate and check calculations **Unit 12 Number and place value (2)** - Compare and order decimals with two decimal places - Round decimals with one decimal place to the nearest whole number - Use decimal notation for money and measures and position decimals on a number line - Multiply and divide numbers to 1000 by 10 and 100, including decimal answers - Use positive and negative numbers in context and position them on a number line - Recognise and continue number sequences formed by counting on or back in steps of constant size - Read Roman numerals to 100 (I to C)	recording length, mass and capacity - Know the meaning of 'kilo', 'centi' and 'milli' and, where appropriate, use decimal notation to record measurements (e.g. 1.3 m or 0.6 kg) - Interpret intervals and divisions on partially numbered scales and record readings accurately, where appropriate to the nearest tenth of a unit - Read, write and convert time between analogue and digital 12 and 24-hour clocks - Choose units of time to measure time intervals and calculate time intervals from clocks and timetables	- Describe and identify positions and plot points on a grid of squares as coordinates in the first quadrant - Describe movements between positions as translations of a given unit to the left/right and up/down
Year 5	**Unit 1 Number and place value (1)** - Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit - Explain what each digit represents in whole numbers and decimals with up to two places, and partition, round and order these numbers - Use understanding of place value to multiply and divide whole numbers and decimals by 10, and 100 **Unit 2 Addition and subtraction (1)** - Use knowledge of place value and addition and subtraction of two-digit numbers to mentally calculate sums and differences of larger numbers and decimals - Use efficient written methods to add and subtract whole numbers with more than four	**Unit 4 Measures (1)** - Read, choose, use and record standard metric units to estimate and measure length, weight and capacity to a suitable degree of accuracy - Convert between different units of measure (e.g. kilometre and metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre) - Interpret a reading that lies between two unnumbered divisions on a scale - Draw and measure lines to the nearest millimetre - Measure and calculate the perimeter of rectangles **Unit 5 Multiplication and division (1)** - Recall multiplication and division facts up to 12 × 12 - Use place value, known and derived facts to multiply and	**Unit 7 Patterns and number (1)** - Count from any given number in whole-number and decimal steps, extending beyond zero when counting backwards - Recognise and describe linear number sequences, including those involving fractions and decimals - Read Roman numerals to 1000 (M) - Identify multiples and factors, including finding all factor pairs - Know and use the vocabulary of prime numbers and establish whether a number up to 20 is prime - Recognise and use square numbers and the notation for squared **Unit 8 Addition and subtraction (2)**	**Unit 10 Measures (2)** - Read, choose, use and record standard metric units to estimate and measure length, weight and capacity to a suitable degree of accuracy - Convert between different units of measure - Interpret a reading that lies between two unnumbered divisions on a scale - Calculate and compare the area of squares and rectangles including using standard units and square centimetres (cm2) - Read timetables and time using 24-hour clock notation and use a calendar to calculate time intervals **Unit 11 Multiplication and division (2)**	**Unit 13 Number and place value (2)** - Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit - Read, write, order and compare numbers with up to three decimal places - Use understanding of place value to multiply and divide whole numbers and decimals by 10, 100 or 1000 - Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents - Round decimals with two decimal places to the nearest whole number and to one decimal place **Unit 14 Geometry (3)** - Identify, visualise and describe properties of	**Unit 16 Measures (3)** - Read, choose, use and record standard metric units to estimate and measure length, weight and capacity to a suitable degree of accuracy - Convert larger to smaller units using decimals to one place (e.g. change 2.6 kg to 2600 g) - Understand and use basic equivalences between metric and common imperial units and express them in approximate terms - Measure and calculate the perimeter of composite rectilinear shapes - Calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes

- digits and decimals with up to two places
- Add and subtract units of measure (e.g. length, mass, volume, money) using decimal notation

Unit 3 Geometry (1)
- Identify, visualise and describe properties of rectangles, triangles, regular polygons and 3-D solids
- Use an angle measurer or protractor to a suitable degree of accuracy
- Know angles are measured in degrees; estimate and measure them and draw a given angle, writing its size in degrees
- Complete patterns with up to two lines of symmetry
- Read and plot coordinates in the first quadrant

- divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers
- Use written methods to record and explain multiplication and division of three-digit numbers by a one-digit number, including division with remainders

Unit 6 Fractions, decimals and percentages (1)
- Find simple fractions of numbers and quantities
- Express a smaller whole number as a fraction of a larger one (e.g. recognise that 5 out of 8 is 5/8)
- Find and explore patterns of equivalent fractions
- Recognise the per cent symbol (%) and understand that it relates to 'number of parts per hundred'
- Know percentage and decimal equivalents of fractions with a denominator of a multiple of 100

- Use knowledge of place value and addition and subtraction of two-digit numbers to mentally calculate sums and differences of larger numbers and decimals
- Use efficient written methods to add and subtract whole numbers with more than four digits and decimals with up to two places
- Add and subtract units of measure (e.g. length, mass, volume, money) using decimal notation
- Add and subtract fractions with the same denominator, writing the answer as a mixed number

Unit 9 Geometry (2)
- Identify, visualise and describe properties of rectangles, triangles, regular polygons and 3-D solids
- Use knowledge of properties to draw 2-D shapes using given dimensions and angles
- Identify and draw nets of 3-D shapes
- Estimate, draw and measure acute and obtuse angles
- Identify, describe and represent the position of a shape following a reflection or translation
- Read and plot coordinates in the first quadrant

- Multiply and divide numbers mentally drawing upon known facts
- Multiply numbers up to three digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers
- Divide numbers up to four digits by a one-digit number using the efficient written method of short division and interpret remainders appropriately for the context
- Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates
- Multiply proper fractions and mixed numbers by whole numbers

Unit 12 Fractions, decimals and percentages (2)
- Find simple fractions and percentages of numbers and quantities
- Use equivalent fractions to compare and order fractions whose denominators are all multiples of the same number
- Understand percentage as the number of parts in every 100 and express tenths and hundredths as percentages
- Recognise mixed numbers and improper fractions and convert from one form to the other
- Know percentage and decimal equivalents of fractions with a denominator of a multiple of 10

- rectangles, triangles, regular polygons
- Use knowledge of properties to draw 2-D shapes using given dimensions and angles
- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles
- Measure and compare different angles
- Calculate angles at a point on a straight line
- Identify, describe and represent the position of a shape following a reflection or translation
- Read and plot coordinates in the first quadrant

Unit 15 Patterns and number (2)
- Count from any given number in whole-number and decimal steps, extending beyond zero when counting backwards
- Recognise and describe linear number sequences and find the term-to-term rule
- Read Roman numerals to 1000 (M) and work out years written in Roman numerals
- Identify pairs of factors of two-digit whole numbers and find common multiples
- 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 and cubed

- Recognise and estimate volume (e.g. using 1 cm3 blocks to build cubes and cuboids) and capacity (e.g. using water)
- Read timetables and time using 24-hour clock notation

Unit 17 Multiplication and division (3)
- Solve problems involving multiplication and division with larger numbers by decomposing them into their factors
- Multiply numbers up to four digits by a one- or two-digit number using an efficient written method, including long multiplication for two-digit numbers
- Divide numbers up to four digits by a one-digit number using an efficient written method of short division and interpret remainders appropriately for the context
- Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates
- Multiply proper fractions and mixed numbers by whole numbers

Unit 18 Fractions, decimals and percentages (3)
- Find fractions and simple percentages of numbers and quantities
- Know percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those with a denominator of a multiple of 10 or 25.
- Use equivalent fractions to compare and order fractions whose denominators are all multiples of the same number
- Recognise mixed numbers and improper fractions and convert from one form to the other
- Use sequences to scale numbers up or down and solve

					problems involving proportions of quantities

Year 6

Unit 1 Number and place value (1)
- Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit
- Use decimal notation for tenths, hundredths and thousandths
- Partition, round and order decimals with up to three places, and position them on the number line
- Use negative numbers in context, and calculate intervals across zero

Unit 2 Addition and subtraction (1)
- Find the difference between a positive and a negative number, or two negative numbers, in context
- Perform mental calculations, including with mixed operations, decimals and large numbers
- Use their knowledge of the order of operations to carry out calculations involving the four operations
- Use efficient written methods to add and subtract four-digit numbers and decimals
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use
- Use estimation to check answers to calculations
- Add and subtract fractions with different denominators

Unit 3 Geometry (1)
- Identify, visualise and describe properties of regular and irregular polygons
- Use knowledge of properties to draw 2-D shapes accurately using given dimensions and angles

Unit 4 Measures (1)
- Select and use standard metric units of measure and convert between units, using decimals to two places (e.g. change 2.75 litres to 2750 ml, or vice versa)
- Read and interpret scales on a range of measuring instruments
- Measure and calculate the perimeter and area of composite rectilinear shapes
- Recognise and calculate volume using 1cm3 blocks to build cubes and cuboids and capacity using water
- Solve problems using timetables and 24-hour clock notation

Unit 5 Multiplication and division (1)
- Use knowledge of place value and multiplication facts to 12 × 12 to derive related multiplication and division facts
- Solve problems involving multiplication and division with larger numbers by factorising
- Multiply numbers up to four digits by a one- or two-digit number using an efficient written method
- Divide numbers up to four digits by a one-digit number using an efficient written method of short division
- Interpret remainders in division as whole number remainders, fractions, or by rounding, as appropriate for the context
- Multiply proper fractions and mixed numbers by whole numbers
- Use approximations, inverse operations and tests of divisibility to estimate and check results

Unit 7 Patterns and number (1)
- Identify common factors and common multiples of numbers
- Recognise that prime numbers have only two factors and identify prime numbers less than 100
- Express missing number problems algebraically
- Use simple formulae expressed in words
- Generate and describe linear number sequences and generalise to find a 'rule'
- Find pairs of numbers that satisfy number sentences involving two unknowns
- Read years written in Roman numerals

Unit 8 Addition and subtraction (2)
- Perform mental calculations, including with mixed operations, negative numbers, decimals and large numbers
- Use their knowledge of the order of operations to carry out calculations involving the four operations
- Use efficient written methods to add and subtract large numbers and decimals
- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- Use estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy
- Add and subtract fractions with different denominators and mixed numbers

Unit 10 Measures (2)
- Select and use standard metric units of measure and convert between units using decimals to three places
- Measure and calculate using imperial units still in everyday use; know their approximate metric values
- Recognise that shapes with the same areas can have different perimeters and vice versa
- Measure and calculate the area of triangles
- Calculate the volume of cubes and cuboids using centimetre cubed (cm3)

Unit 11 Multiplication and division (2)
- Use knowledge of place value and multiplication facts to 12 × 12 to derive related multiplication and division facts
- Use knowledge of the order of operations to carry out calculations involving the four operations
- Multiply numbers up to four digits by a two-digit whole number using an efficient written method
- Divide numbers up to four digits by a two-digit whole number using an efficient written method
- Interpret remainders in division as whole number remainders, fractions, or by rounding, as appropriate for the context
- Calculate and interpret the mean as an average

Unit 12 Fractions, decimals and percentages (2)
- Use common factors to simplify fractions and common multiples to show equivalent fractions

Unit 13 Number and place value (2)
- Read, write, order and compare numbers up to at least 10 000 000 and determine the value of each digit
- Identify the value of each digit to three decimal places and use this to help order decimals
- Multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
- Round any number to a required degree of accuracy

Unit 14 Geometry (3)
- Recognise, describe and build 3-D shapes, including making nets
- Find unknown angles in any triangles, quadrilaterals, and regular polygons
- Find unknown angles where they meet at a point, are on a straight line, and are vertically opposite
- Illustrate and name parts of circles, including radius, diameter and circumference
- Use coordinates in all four quadrants to draw, locate and complete shapes that meet given properties
- Visualise and draw on grids where a shape will be after reflection, after translation, or after rotation through 90° or 180° about its centre or one of its vertices

Unit 15 Patterns and number (2)
- Identify common factors and common multiples of numbers
- Recognise that prime numbers have only two factors and identify prime numbers less than 100
- Find the prime factors of two-digit numbers

Unit 16 Measures (3)
- Select and use standard metric units of measure and convert between units using decimals to three places
- Measure and calculate using imperial units still in everyday use; know their approximate metric values
- Calculate the area of parallelograms
- Calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm3) and cubic metres (m3)

Unit 17 Multiplication and division (3)
- Use knowledge of place value and multiplication facts to 12 × 12 to derive related multiplication and division facts involving decimals
- Use knowledge of the order of operations to carry out calculations involving the four operations
- Multiply one-digit numbers with up to two decimal places by whole numbers
- Multiply and divide numbers up to four digits by a two-digit whole number using an efficient written method
- Use written division methods for money and measures where the answer has up to two decimal places
- Multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. 1/4 x 1/2 = 1/8)
- Divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6)

Unit 18 Fractions, decimals and percentages (3)
- Associate a fraction with division to calculate decimal fraction equivalents (e.g.

- Measure and compare different angles using a protractor - Calculate angles of triangles and at a point on a straight line - Use coordinates in the first quadrant to draw, locate and complete shapes that meet given properties - Draw and translate shapes on a grid	**Unit 6 Fractions, decimals and percentages (1)** - Find fractions and percentages of numbers and quantities (e.g. 7/10 of 90, 20% of 30) - Use equivalent fractions to compare and order fractions - Recall and use equivalences between fractions, decimals and percentages - Recognise mixed numbers and improper fractions and convert from one form to the other - Solve simple problems involving direct proportion by scaling quantities up or down	**Unit 9 Geometry (2)** - Compare and classify geometric shapes based on their properties and sizes - Describe, identify and visualise parallel and perpendicular edges or faces; use these properties to classify 2-D shapes and 3-D solids - Estimate angles, and use a protractor to measure and draw them, on their own and in shapes - Calculate angles in a quadrilateral or around a point - Use coordinates in two quadrants to draw, locate and complete shapes that meet given properties - Draw, translate and reflect shapes on a grid	- Compare and order fractions, including fractions greater than 1, by converting them to fractions with a common denominator - Calculate fractions and percentages of whole-numbers, money or measures (e.g. 3/5 of 45, 15% of £40) - Solve problems involving proportions of quantities - Use ratio to compare quantities, size and scale drawings	- Express missing number problems algebraically - Find pairs of numbers that satisfy number sentences involving two unknowns - Represent and interpret sequences, patterns and relationships and suggest and test hypotheses - Construct and use simple expressions and formulae in words then symbols	0.375) for a simple fraction (e.g. 3/8) - Calculate fractions and percentages of whole-numbers, money or measures (e.g. 5/8 of 96, 65% of £260) - Express one quantity as a percentage of another (e.g. express £400 as a percentage of £1000) - Use ratio to compare quantities, size and scale drawings, including notation a:b - Solve problems involving proportionality in contexts such as similar shapes and recipes