

Year 5	
Units/ Concepts	Content
Unit 1 .Place Value	<ul style="list-style-type: none"> I can read and write numbers to at least 1,000,000 both in digits and words I can understand negative numbers in context and count forwards and backwards with whole numbers through zero I can say the value of each digit in any number to 1,000,000 and compare these numbers by ordering and using the symbols $<=>$
Unit 2 and 3. Addition and Subtraction	<ul style="list-style-type: none"> I can add numbers with more than 4 digits using formal column addition I can subtract numbers with more than 4 digits using formal column subtraction I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why (up to 5 digits)
Unit 4. Multiplication	<ul style="list-style-type: none"> I can multiply numbers up to 4 digits by a one or two digit number using a formal written method (long multiplication for two digit)
Unit 5. Division	<ul style="list-style-type: none"> I can divide numbers up to 4 digits by a one-digit number using the short division formal written method and interpret remainders appropriately in context (including with remainders, as fractions, as decimals or by rounding (for example, $98 \div 4 = \frac{98}{4} = 24 \text{ r } 2 = 24\frac{1}{2} = 24.5 \approx 25$)).
Unit 6. Place Value	<ul style="list-style-type: none"> I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10 000 and 100 000 I can make a reasonable estimate of the answer to a calculation by using rounding (with numbers up to 5 digits) I can read Roman numerals to 1000 (M) and recognise years written in this form
Unit 7 . Shape	<ul style="list-style-type: none"> I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

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Unit 8 Multiplication and Division	<ul style="list-style-type: none"> I can multiply numbers up to 4 digits by a one or two digit number using a formal written method (long multiplication for two digit) I can divide numbers up to 4 digits by a one-digit number using the short division formal written method and interpret remainders appropriately in context (including with remainders, as fractions, as decimals or by rounding (for example, $98 \div 4 = 24 \text{ r } 2 = 24 = 24.5 \approx 25$)).
Unit 9 and 10 Factors, Multiples, Primes, Square and Cube Numbers	<ul style="list-style-type: none"> I can identify multiples and factors, including finding all the factor pairs of a number and the common factors of two numbers I can identify and explain prime numbers, prime factors and composite (non-prime) numbers, I recall all of the prime numbers up to 19. I can recognise and use square numbers and cube numbers, and the notation, for example 5^2 4^3 I can solve problems involving multiplication and division using knowledge of factors, multiples, squares and cubes
Unit 11 Multiply and Divide by 10 100 1000	<ul style="list-style-type: none"> I can multiply and divide whole numbers and decimals by 10, 100 and 1000 (for example by multiplying and dividing by powers of a 1000 in converting between units such as kilometres and metres).
Unit 12 Fractions	<ul style="list-style-type: none"> I can compare and order fractions whose denominators are all multiples of the same number I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths I can compare and order fractions whose denominators are all multiples of the same number
Unit 13 Fractions	<ul style="list-style-type: none"> I can add and subtract fractions with the same denominator and denominators that are multiples of the same number I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]

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Unit 14 Shape Angles	<ul style="list-style-type: none"> I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles I can draw given angles using a protractor, and measure them in degrees ($^{\circ}$) with lines drawn to an accuracy to the nearest mm I can identify angles: at a point and one whole turn (total 360°); angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°); other multiples of 90° I can use the properties of rectangles to deduce related facts and find missing lengths and angles (use angle sum facts and other properties to make deductions about missing angles)
Unit 15 Decimals	<ul style="list-style-type: none"> I can read, write, compare and order numbers with up to three decimal places I can read and write decimal numbers as fractions I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Unit 16 Decimals	<ul style="list-style-type: none"> I can round decimals with two decimal places to the nearest whole number and to one decimal place I can solve problems involving number up to three decimal places
Unit 17 Multiplication, Division	<ul style="list-style-type: none"> I can multiply and divide whole numbers and decimals by 10, 100 and 1000 (for example by multiplying and dividing by powers of a 1000 in converting between units such as kilometres and metres). Including decimal numbers
Unit 18 Measurement	<ul style="list-style-type: none"> I can use my knowledge of place value and multiplication and division to convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) I can use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling (for example calculate the area from scale drawings using given measurements)
Unit 19 Four Operations Problem Solving in Context	<ul style="list-style-type: none"> I can solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling (for example calculate the area from scale drawings using given measurements) imperial units such as inches, pounds and pints I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why (up to 5 digits) I can solve problems using all four operations

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Unit 20 Fractions	<ul style="list-style-type: none"> I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $1\frac{1}{2} = 1 + \frac{1}{2}$] I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
Unit 21 Multiplication and Division	<ul style="list-style-type: none"> I can multiply numbers up to 4 digits by a one or two digit number using a formal written method (long multiplication for two digit) I can divide numbers up to 4 digits by a one-digit number using the short division formal written method and interpret remainders appropriately in context (including with remainders, as fractions, as decimals or by rounding (for example, $98 \div 4 = 24 \text{ r } 2 = 24 + \frac{2}{4} = 24.5 \approx 25$)) I can solve problems involving multiplication and division
Unit 22 Position and Direction	<ul style="list-style-type: none"> I can identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed.
Unit 23 Percentages	<ul style="list-style-type: none"> I can recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal
Unit 24 Statistics	<ul style="list-style-type: none"> I can solve comparison, sum and difference problems using information presented in a line graph I can complete, read and interpret information in tables, including timetables I can select an appropriate way of presenting data graphically explaining the reasons for my choice

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Unit 25 and 26 Measurement	<ul style="list-style-type: none"> I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres (including using the relations of perimeter to find unknown lengths) I can calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes I can estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]
Unit 27 Fractions	<ul style="list-style-type: none"> I can compare and order fractions whose denominators are all multiples of the same number I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths I can compare and order fractions whose denominators are all multiples of the same number I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $1\frac{1}{2} = 1\frac{1}{2}$] I can add and subtract fractions with the same denominator and denominators that are multiples of the same number I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams I can solve problems involving number up to three decimal places
Unit 28 Fractions, Decimals and Percentages	<ul style="list-style-type: none"> I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$, and those fractions with a denominator of a multiple of 10 or 25. I can make connections between percentages, fractions and decimals (for example, 100% represents a whole quantity and 1% is $\frac{1}{100}$, 50% is $\frac{1}{2}$, 25% is $\frac{1}{4}$) and relate this to finding 'fractions of' and percentages of
Unit 29 Decimals and Place Value	<ul style="list-style-type: none"> I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10 000 and 100 000 I can round decimals with two decimal places to the nearest whole number and to one decimal place
Unit 30 Shape	<ul style="list-style-type: none"> I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

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Unit 31 Four Operations – Formal methods	<ul style="list-style-type: none"> I can add numbers with more than 4 digits using formal column addition I can subtract numbers with more than 4 digits using formal column subtraction I can multiply numbers up to 4 digits by a one or two digit number using a formal written method (long multiplication for two digit) I can divide numbers up to 4 digits by a one-digit number using the short division formal written method and interpret remainders appropriately in context (including with remainders, as fractions, as decimals or by rounding (for example, $98 \div 4 = \frac{98}{4} = 24 \text{ r } 2 = 24 \frac{1}{2} = 24.5 \approx 25$)).
Unit 32 and 32a Four Operations Problem Solving	<ul style="list-style-type: none"> I can solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling (for example calculate the area from scale drawings using given measurements) imperial units such as inches, pounds and pints I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why (up to 5 digits) I can solve problems using all four operations
Unit 33 Measurement	<ul style="list-style-type: none"> I can solve problems involving converting between units of time I can use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling (for example calculate the area from scale models) I can solve problems involving multiplication and division, including scaling by simple fractions (e.g. the model village was $\frac{1}{4}$ of the size of the actual village, how tall was the school) and problems involving simple rates (for example multiplying and dividing by powers of 10 in scale drawings)le drawings using given measurements)
Unit 34 Multiplication	<ul style="list-style-type: none"> I can identify multiples and factors, including finding all the factor pairs of a number and the common factors of two numbers I can identify and explain prime numbers, prime factors and composite (non-prime) numbers, I recall all of the prime numbers up to 19. I can recognise and use square numbers and cube numbers, and the notation, for example 5^2 4^3 I can solve problems involving multiplication and division using knowledge of factors, multiples, squares and cubes
Unit 35 Fractions	<ul style="list-style-type: none"> I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $+ = = 1$] I can add and subtract fractions with the same denominator and denominators that are multiples of the same number I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams