

<i>Maths</i>	<i>Year 1</i>	<i>Year 2</i>	<i>Year 3</i>	<i>Year 4</i>	<i>Year 5</i>	<i>Year 6</i>
<i>Autumn 1</i>	<i>Number- Number and place value</i>	<i>Number- Number and place value, addition and subtraction</i>	<i>Number- Number and place value, addition and subtraction</i>	<i>Number- Number and place value, addition and subtraction</i>	<i>Number and place value, addition and subtraction</i>	<i>Place value addition subtraction multiplication division</i>
<i>Autumn 2</i>	<i>Number- Addition and subtraction</i>	<i>Number- Multiplication and division and fractions</i>	<i>Number- Multiplication and division, fractions</i>	<i>Number- Multiplication and division, fractions</i>	<i>Multiplication and division, fractions, decimals and percentages</i>	<i>Fractions decimals percentages algebra ratio and proportion</i>
<i>Spring 1</i>	<i>Number- Multiplication and division</i>	<i>Measurement</i>	<i>Measurements</i>	<i>Measurement</i>	<i>Measurement</i>	<i>Measurement</i>
<i>Spring 2</i>	<i>Number- Fractions</i>	<i>Geometry- Properties of Shapes and Position and Direction</i>	<i>Geometry- Properties of Shapes and Position and Direction</i>	<i>Geometry- Properties of Shapes and Position and Direction</i>	<i>Geometry- Properties of Shapes and Position and Direction</i>	<i>Geometry- Properties of Shapes and Position and Direction</i>
<i>Summer 1</i>	<i>Measurement</i>	<i>Statistics</i>	<i>Statistics</i>	<i>Statistics</i>	<i>Statistics</i>	<i>Statistics</i>
<i>Summer 2</i>	<i>Geometry- properties of shape and position and direction</i>	<i>Gaps/investigations</i>	<i>Gaps/investigations</i>	<i>Gaps/investigations</i>	<i>Gaps/investigations</i>	<i>Investigations</i>

Maths NURSERY	AUTUMN	AUTUMN	SPRING	SPRING	SUMMER	SUMMER
FOCUS	Counting	Understanding and using number	Simple addition	Simple subtraction	Describe shapes, spaces and measure	Describe shapes, spaces and measure
KEY KNOWLEDGE	<ul style="list-style-type: none"> children count reliably with numbers from 1 to 20 place them in order and say which number is one more or one less than a given number 	<ul style="list-style-type: none"> Using quantities and objects 	<ul style="list-style-type: none"> Using quantities and objects, add single digit numbers Count on to find the answer Solve problems including doubling 	<ul style="list-style-type: none"> Using quantities and objects, subtract single digit numbers Count back to find the answer Solving problems including halving and sharing 	<ul style="list-style-type: none"> Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems. They recognise, create and describe patterns. They explore characteristics of everyday objects and shapes and use mathematical language to describe them. 	

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Skills progression						

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Maths REC	AUTUMN	AUTUMN	SPRING	SPRING	SUMMER	SUMMER
FOCUS	Counting	Understanding and using number	Simple addition	Simple subtraction	Describe shapes, spaces and measure	Describe shapes, spaces and measure
Skills progression						

Maths Y1	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	<i>Number- Number and place value</i>	<i>Number- Addition and subtraction</i>	<i>Number- Multiplication and division</i>	<i>Number- Fractions</i>	Measurement	Geometry- properties of shape and position and direction
KEY KNOWLEDGE	<ul style="list-style-type: none"> count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens as appropriate Read and write numbers from 1 to 20 in numerals and words given a number, identify one more and one less identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least 	<ul style="list-style-type: none"> read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs represent and use number bonds and related subtraction facts within 20 add and subtract one-digit and two-digit numbers to 20, including zero solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$ 	<ul style="list-style-type: none"> solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher Count in multiples of twos, fives and tens 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] mass/weight [for example, heavy/light, heavier than, lighter than] capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] time [for example, quicker, slower, earlier, later] measure and begin to record the following: lengths and heights ☐ mass/weight ☐ capacity and volume ☐ time (hours, minutes, seconds) recognise and know the value of different denominations of coins and notes sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] recognise and use language relating to dates, including days of the week, weeks, months and years tell the time to the hour and half past the hour and draw the hands on a clock face to show these times 	<ul style="list-style-type: none"> recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles] 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]. Describe position, direction and movement, including whole, half, quarter and three-quarter turns

Maths Y1	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number and place value	Addition and subtraction	Multiplication and division	Fractions	Measurement	Geometry
Skills progression	<ul style="list-style-type: none"> Count to and across 100, forwards and backwards, beginning with 0 or 1 from any given number Count, read and write numbers to 100 in numerals Identify one more and one less than any given number Identify and represent numbers using objects pictorial representations Read and write numbers from 1 to 20 in numerals and words 	<ul style="list-style-type: none"> Memorise and reason with number bonds to 10 and 20 Understand the effect of adding and subtracting zero Explore inverse relationship between addition and subtraction and use this to derive new facts Use knowledge of inverse to derive associated addition and subtraction facts check answers 	<ul style="list-style-type: none"> Find doubles and halves of numbers and relate to multiplying and dividing by two Count in multiples of twos, fives and tens 	Recognise, find and name a half and quarter of objects, shapes or quantities	<ul style="list-style-type: none"> Recognise and know the value of different denominations of coins and notes Tell the time to the hour and half past the hour Measure and begin to record length/ height, weight/mass, capacity/volume and time. 	<ul style="list-style-type: none"> Recognise and name common 2-D and 3-D shapes

Maths Y2	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number- Number and place value, addition and subtraction	Number- Multiplication and division, fractions	Measurement	Geometry- <i>Properties of Shapes and Position and Direction</i>	Statistics	Gaps/Investigations
KEY KNOWLEDGE	<ul style="list-style-type: none"> count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward recognise the place value of each digit in a two-digit number (tens, ones) identify, represent and estimate numbers using different representations, including the number line compare and order numbers from 0 up to 100; use and = signs read and write numbers to at least 100 in numerals and in words use place value and number facts to solve problems. solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures, applying their increasing knowledge of mental and written methods recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 add and subtract numbers by using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones, a two-digit number and tens, two two-digit numbers, adding three one-digit numbers show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. 	<ul style="list-style-type: none"> recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$. 	<ul style="list-style-type: none"> choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}\text{C}$); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and = recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change compare and sequence intervals of time tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times know the number of minutes in an hour and the number of hours in a day. 	<ul style="list-style-type: none"> identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] compare and sort common 2-D and 3-D shapes and everyday objects. order and arrange combinations of mathematical objects in patterns and sequences use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise). 	<ul style="list-style-type: none"> interpret and construct simple pictograms, tally charts, block diagrams and simple tables ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ask and answer questions about totalling and comparing categorical data. 	

Maths Y2	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number and place value, addition and subtraction	Multiplication and division, fractions	Measurement	Geometry	Statistics	Gaps/Investigations
Skills progression	<ul style="list-style-type: none"> Count across 100, forwards and backwards, in steps of 2, 3, and 5 from 0 and in tens from any number Read and write numbers to at least 100 in numerals and in words Recognise the place value of each digit in a two-digit number (tens, ones) Find 10 more and 1 less than a given number Recognise zero as a place holder Compare and order numbers from 0 up to 100; use <, > and = signs Partition numbers in different ways Round numbers to the nearest 10 and use this for estimation and calculation purposes Recall addition and subtraction facts to 20 and derive and use related facts up to 10 Explore inverse relationship between addition and subtraction and use this to derive new facts and to check answers Add and subtract numbers mentally using the appropriate strategies and jotting Solve missing number addition and subtraction problems 	<ul style="list-style-type: none"> Double any number between 1 and 30 and find all corresponding halves Solve missing number problems with multiplication and division Recognise, name, count and state different amounts of fractions e.g. $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ 	<ul style="list-style-type: none"> Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times Find different combinations of coins to make a particular values Know relationships and simple equivalents between given units for length, mass and capacity. Choose and use appropriate standard units to estimate and measure length/ height (mm/cm/m), mass (Kg/g), temperature (OC), capacity (L/ml) to the nearest appropriate unit. 	<ul style="list-style-type: none"> Identify and describe the properties of 2-D and 3-D shapes Identify angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) 	<ul style="list-style-type: none"> interpret and construct simple pictograms, tally charts, block diagrams and simple tables 	

Maths Y3	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number -Number and place value, addition and subtraction	Number- Multiplication and division, fractions	Measurement	Geometry- Properties of Shape and Position and Direction	Statistics	Gaps/Investigations
KEY KNOWLEDGE	<ul style="list-style-type: none"> count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number recognise the place value of each digit in a three-digit number (hundreds, tens, ones) compare and order numbers up to 1000 identify, represent and estimate numbers using different representations read and write numbers up to 1000 in numerals and in words solve number problems and practical problems involving the ideas from number and place value. add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction estimate the answer to a calculation and use inverse operations to check answers solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. 	<ul style="list-style-type: none"> recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects. 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 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators recognise and show, using diagrams, equivalent fractions with small denominators add and subtract fractions with the same denominator within one whole [for example, $5/7 + 1/7 = 6/7$] compare and order unit fractions, and fractions with the same denominators solve problems involving fractions. 	<ul style="list-style-type: none"> measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) measure the perimeter of simple 2-D shapes add and subtract amounts of money to give change, using both £ and p in practical contexts tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example to calculate the time taken by particular events or tasks]. 	<ul style="list-style-type: none"> draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them recognise angles as a property of shape or a description of a turn identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle identify horizontal and vertical lines and pairs of perpendicular and parallel lines 	<ul style="list-style-type: none"> interpret and present data using bar charts, pictograms and tables solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables. 	

Maths Y3	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number and place value, addition and subtraction	Multiplication and division, fractions	Measurement	Geometry	Statistics	Gaps/Investigations
Skills progression	<ul style="list-style-type: none"> Use rounding to support estimation and calculation Use knowledge of place value to derive new addition and subtraction facts Use knowledge of inverse to derive associated addition and subtraction facts and check answers Add and subtract mentally $HTU \pm U$, $HTU \pm T$ and $HTU \pm H$ Use known facts to derive nearby facts Use known facts to derive equivalent facts 	<ul style="list-style-type: none"> Double any number between 1 and 50 and find all corresponding halves Multiply any three-digit number by 10 and any two-digit number by 100 Divide any three-digit multiple of 10 by ten Use knowledge of inverse to derive associated multiplication and division fact Count up and down in tenths Recall fraction pairs to 1 Identify fractions greater or less than a half Identify equivalent fractions with small denominators Order fractions with the same denominator 	<ul style="list-style-type: none"> Tell and write the time from a 12-hour analogue clock and a clock with Roman numerals and a digital clock display Convert between money and measures including time Measure, compare, add and subtract: length/ mass/ volume and capacity Measure the perimeter of a simple 2D shape 	<ul style="list-style-type: none"> Recognise right angles, straight angles, half and full turns and identify whether the turn is greater, less than or the same as a right angle draw 2-D shapes 	<ul style="list-style-type: none"> interpret and present data using bar charts, pictograms and tables 	

Maths Y4	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number- Number and place value, addition and subtraction	Number- Multiplication and division, fractions	Measurement	Geometry- Properties of Shape and Position and Direction	Statistics	Gaps/Investigations
KEY KNOWLEDGE	<ul style="list-style-type: none"> count in multiples of 6, 7, 9, 25 and 1000 find 1000 more or less than a given number count backwards through zero to include negative numbers recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) order and compare numbers beyond 1000 identify, represent and estimate numbers using different representations round any number to the nearest 10, 100 or 1000 read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate solve number and practical problems that involve all of the above and with increasingly large positive numbers estimate and use inverse operations to check answers to a calculation solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> recall multiplication and division facts for multiplication tables 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 recognise and use factor pairs and commutativity in mental calculations multiply two-digit and three-digit numbers by a one-digit number using formal written layout solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects. recognise and show, using diagrams, families of common equivalent fractions count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number add and subtract fractions with the same denominator recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places solve simple measure and money problems involving fractions and decimals to two decimal places. 	<ul style="list-style-type: none"> Convert between different units of measure [for example, kilometre to metre; hour to minute] measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares estimate, compare and calculate different measures, including money in pounds and pence read, write and convert time between analogue and digital 12- and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. 	<ul style="list-style-type: none"> compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry. describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon. 	<ul style="list-style-type: none"> interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs. 	

Maths Y4	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number and place value, addition and subtraction	Multiplication and division, fractions	Measurement	Geometry	Statistics	Gaps/Investigations
Skills progression	<ul style="list-style-type: none"> • Read and write numbers up to 10 000 and recognise the place value of each digit • Recognise the place value of each digit in a four-digit number • Compare and order numbers up to 10 000 • Partition numbers into place value columns • Partition numbers in different ways • Round any four-digit number to the nearest 10, 100 and 1000 • Use rounding to support estimation and calculation • Use knowledge of place value to derive new addition and subtraction facts • Use knowledge of inverse to derive associated addition and subtraction facts and check answers • Add and subtract mentally $THTU \pm U$, $THTU \pm T$, $THTU \pm H$, $TU \pm TU$ and $HTU \pm TU$ • Use known facts to derive equivalent facts • Count up and down in tenths and hundredths and recognise the equivalent decimal values • Recall fraction and decimal pairs to 1 • Round decimals with one decimal place to the nearest whole number 	<ul style="list-style-type: none"> • Count from zero in multiples of 6, 7, 9, 25 and 1000 using bridging strategies as appropriate • Recall multiplication facts and related division facts for tables up to 12×12 • Double any number between 1 and 100 and find all corresponding halves • Multiply numbers including decimals by 10 and 100 • Divide decimal numbers (to one decimal place) by 10 • Divide four-digit whole numbers by 100 • Use knowledge of inverse to derive associated multiplication and division fact • Use known facts to derive new facts • Identify equivalent fractions • Identify fractions greater or less than a half • Order, add and subtract fractions with the same denominator • Recognise decimal equivalents of fractions with a denominator of ten and one hundred and also decimal equivalents of half, one quarter and three quarters 	<ul style="list-style-type: none"> • Use knowledge of complements to 100 to find change from whole pound • Use knowledge of complements to 60 to calculate time within an hour • Tell and write the time from a 12-hour analogue clock and a clock with Roman numerals and a digital clock display • Read, tell and write the time from a 24-hour clock • Convert between 12 and 24-hour clocks • Convert between money and measures including time • Convert between units of measure. 	<ul style="list-style-type: none"> • Recognise right angles, straight angles, half and full turns and relate the turn to a measurement in degrees • Identify different types of angles including acute and obtuse • compare and classify geometric shapes based on their properties and sizes • Order angles by size 	<ul style="list-style-type: none"> • interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs. 	

Maths Y5	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number- Number and place value, addition and subtraction	Number- Multiplication and division, fractions (including decimals and percentages)	Measurement	Geometry- Properties of Shape and Position and Direction	Statistics	Gaps/ Investigation
KEY KNOWLEDGE	<ul style="list-style-type: none"> read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 solve number problems and practical problems that involve all of the above read Roman numerals to 1000 (M) and recognise years written in Roman numerals. add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) 	<ul style="list-style-type: none"> identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers establish whether a number up to 100 is prime and recall prime numbers up to 19 multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers multiply and divide numbers mentally drawing upon known facts divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates compare and order fractions whose denominators are all multiples of the same number identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths 	<ul style="list-style-type: none"> convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes . estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water] solve problems involving converting between units of time 	<ul style="list-style-type: none"> identify 3-D shapes, including cubes and other cuboids, from 2-D representations know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles draw given angles, and measure them in degrees ($^\circ$) identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and 2 1 a turn (total 180°), other multiples of 90° use the properties of rectangles to deduce related facts and find missing lengths and angles distinguish between regular and irregular polygons based on reasoning about equal sides and angles 	<ul style="list-style-type: none"> solve comparison, sum and difference problems using information presented in a line graph complete, read and interpret information in tables, including timetables. 	

Maths Y5	AUTUMN 1 (Cont.)	AUTUMN 2 (cont.)	SPRING 1 (cont.)	SPRING 2 (cont.)	SUMMER 1 (cont.)	SUMMER 2 (cont.)
FOCUS	Number- Number and place value, addition and subtraction	Number- Multiplication and division, fractions (including decimals and percentages)	Measurement	Geometry- Properties of Shape and Position and Direction	Statistics	Gaps/ Investigation
KEY KNOWLEDGE	<ul style="list-style-type: none"> add and subtract numbers mentally with increasingly large numbers Solve number problems and practical problems that relate to all of the above (number and place value) Solve number problems and practical problems that relate to all of the above (number and place value) use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> 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, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$] add and subtract fractions with the same denominator and denominators that are multiples of the same number multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams read and write decimal numbers as fractions [for example, $0.71 = 71/100$] 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 read, write, order and compare numbers with up to three decimal places solve problems involving number up to three decimal places 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 solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25. 	<ul style="list-style-type: none"> use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling. understand and use approximate equivalences between metric units and common imperial units 	<ul style="list-style-type: none"> 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. 		

Maths Y5	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number and place value, addition and subtraction	Multiplication and division, fractions	Measurement	Geometry	Statistics	Gaps/Investigations
Skills progression	<ul style="list-style-type: none"> Count forward and backwards in steps of powers of 10 for any given number up to 1 000 000 Read and write numbers up to 1 000 000 and determine the place value of each digit Recognise the place value in large whole numbers to at least 1 000 000 Compare and order numbers to at least 1 000 000 Partition numbers into place value columns Partition numbers in different ways Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 Use rounding to support estimation and calculation Use knowledge of place value to derive new addition and subtraction facts Read and recognise Roman numerals up to 1000 Add and subtract mentally with increasingly large numbers to aid fluency e.g. TthTHTU ± THTU, TthTHTU ± HTU, HTU.t ± HTU.t 	<ul style="list-style-type: none"> Identify multiples and common factors of two or more numbers Find factor pairs of a two-digit number Understand the terms multiple, factor, and prime, square and cube numbers and use them to construct equivalent statements Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19 Can find the prime factors of a given number Recognise and use square and cube numbers Double any number between 1 and 1000 and find all corresponding halves Multiply and divide whole numbers including those involving decimals by 10, 100 and 1000 Use knowledge of inverse to derive associated multiplication and division facts Use known facts and knowledge of multiples to derive new fact Count up and down in tenths, hundredths and thousandths in decimals and fractions including bridging zero For fractions and decimals derive pairs with complements to 1 and to other whole numbers Identify equivalent fractions Recognise decimal equivalents of fractions with a denominator of ten, one hundred and one thousand Read and write decimal numbers with up to 3 decimal places as fractions Read, write order and compare numbers with up to three decimal places Round decimals with up to two decimal places to the nearest whole number and to one decimal place Know percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 	<ul style="list-style-type: none"> Use knowledge of complements to 60 and that there are 60 minutes in an hour to convert time durations Solve problems involving converting between units of time. Use all four operations to solve problems involving measure. 	<ul style="list-style-type: none"> Calculate and compare the area of rectangles. know angles are measured in degrees: measure angles- estimate and compare acute, obtuse and reflex angles 	<ul style="list-style-type: none"> complete, read and interpret information in tables, including timetables. 	

Maths Y6	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number and place value, addition and subtraction, multiplication and division	Fractions, decimals and percentages. Algebra, ratio and proportion	Measurement	Geometry Properties of Shape and Position and Direction	Statistics	Gaps/Investigation
KEY KNOWLEDGE	<ul style="list-style-type: none"> read, write, order and compare numbers up to 10 000 000 and determine the value of each digit round any whole number to a required degree of accuracy use negative numbers in context, and calculate intervals across zero multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context perform mental calculations, including with mixed operations and large numbers identify common factors, common multiples and prime numbers use their knowledge of the order of operations to carry out calculations involving the four operations solve number and practical problems that involve all of the above. 	<ul style="list-style-type: none"> use common factors to simplify fractions; use common multiples to express fractions in the same denomination compare and order fractions, including fractions > 1 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$] associate a fraction with division and calculate decimal fraction equivalents [for example, $\frac{3}{8}$] identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places multiply one-digit numbers with up to two decimal places by whole numbers use written division methods in cases where the answer has up to two decimal places solve problems which require answers to be rounded to specified degrees of accuracy recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. 	<ul style="list-style-type: none"> solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places convert between miles and kilometres recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the area of parallelograms and triangles 	<ul style="list-style-type: none"> draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. describe positions on the full coordinate grid (all four quadrants) draw and translate simple shapes on the coordinate plane, and reflect them in the axes. 	<ul style="list-style-type: none"> interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average. 	

Maths Y6	AUTUMN 1 (cont.)	AUTUMN 2 (cont.)	SPRING 1 (cont.)	SPRING 2 (cont.)	SUMMER 1 (cont.)	SUMMER 2 (cont.)
FOCUS	Number and place value, addition and subtraction, multiplication and division	Fractions, decimals and percentages. Algebra, ratio and proportion	Measurement	Geometry- Properties of Shape and Position and Direction	Statistics	Gaps/Investigation
KEY KNOWLEDGE	<ul style="list-style-type: none"> • solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why • solve problems involving addition, subtraction, multiplication and division • use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. 	<ul style="list-style-type: none"> • solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts • solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison • solve problems involving similar shapes where the scale factor is known or can be found • solve problems involving unequal sharing and grouping using knowledge of fractions and multiples • use simple formulae • generate and describe linear number sequences • express missing number problems algebraically • find pairs of numbers that satisfy an equation with two unknowns • enumerate possibilities of combinations of two variables. • Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres • Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. 	<ul style="list-style-type: none"> • calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³]. 			

Maths Y6	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
FOCUS	Number and place value, addition and subtraction	Multiplication and division, fractions	Measurement	Geometry	Statistics	Gaps/Investigations
Skills progression	<ul style="list-style-type: none"> Count forward and backwards in steps of powers of 10 for any given number up to 10 000 000 Count forwards and backwards with positive and negative whole number including zero and calculate intervals across zero Read, write, order and compare numbers up to 10 000 000 and determine the place value of each digit Partition numbers into place value columns Partition numbers in different ways Round any whole number to a required degree of accuracy Use rounding to support estimation and calculation Use knowledge of place value to derive new addition and subtraction facts Add and subtract mentally with jottings with increasingly large numbers to aid fluency E.g. $HthTthTHTU \pm TthTHTU$ $TthTHTU \pm THTU$ $HTU.t \pm TU.t$ Use their knowledge of the order of operations to carry out calculations involving the four operations 	<ul style="list-style-type: none"> Recognise and use square and cube numbers Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. Establish whether a number up to 100 is prime and recall prime numbers up to 19 Double any number between 1 and 1000 and find all corresponding halves Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 giving answers up to 3 decimal places Perform mental calculations including with mixed operations Count up and down in tenths, hundredths and thousandths in decimals and fractions including bridging zero for example on a number line Use factors to simplify fractions Compare and order decimals and fractions including fractions >1 Calculate simple percentages of amounts Recognise mixed numbers and improper fractions and convert from one form to another and write mathematical statements > 1 as a mixed number Derive decimal complements to 1 working with decimals up to 3 decimal places Recall and derive equivalences between fractions, decimals and percentages 	<ul style="list-style-type: none"> Convert between money and measures including time solve problems involving the calculation and conversion of units of measure use, read, write and convert between standard units of measure. 	<ul style="list-style-type: none"> Know the radius, circumference and diameter of circles. Recognise that shapes with the same areas can have different perimeters and vice versa. Find unknown angles in triangles, quadrilaterals and regular polygons (protractor) 	<ul style="list-style-type: none"> interpret and construct pie charts and line graphs and use these to solve problems 	