

| | Number | | | | | |
|--|---|--|---|---|---|---|
| EYFS | Year 1 | Year 2 | Year3 | Year4 | Year5 | Year6 |
| <ul style="list-style-type: none"> •Explore, count, represent and order the numbers 1 to 20. •Estimate and check by counting. •Recognise different representations of number. •Explore and understand conservation of number. •Explore zero. <ul style="list-style-type: none"> •Understand one more or one fewer up to 20. (beyond 20) •Explore commutativity within 20. • Explore addition as counting on and subtraction as taking away within 20. •Explore relationship between doubling and halving. •Compare two amounts. •Recognise and extend patterns • Counting and sharing in equal groups. •Grouping into fives and tens. •Relationship between grouping and sharing. | <ul style="list-style-type: none"> •Represent, compare and explore numbers within 100. •Understand one more and one fewer, ten more, ten fewer up to 100 (and beyond) <ul style="list-style-type: none"> •Explore relationship between doubling and halving. •Represent and explain addition and subtraction. •Explore commutativity within 100. •Be secure with addition and subtraction facts to 20. •Use known facts to add and subtract. •Represent and explain a range of addition and subtraction strategies including 'Make Ten'. •2-digit numbers – represent, sequence, explore, compare. •Use language to quantify and compare difference. •Illustrate, explain and link addition and subtraction with equations. •Explore addition and subtraction with 2-digit numbers. <ul style="list-style-type: none"> •Count in 2s, 5s and 10s. •Describe and complete number patterns. •Share equally into groups. •Add equal groups. •Explore arrays. <ul style="list-style-type: none"> •Identify half and quarter of a shape or object. •Link halving to fractions. •Find half and quarter of a quantity. | <ul style="list-style-type: none"> •Read, write, represent, partition, compare and order numbers to 100 and beyond. •Explore patterns including, odds and evens, tens and ones. <ul style="list-style-type: none"> •Apply number bonds and addition and subtraction strategies to solve equations. •Represent and explain addition and subtraction of two 2-digit numbers. •Illustrate, represent and explain addition and subtraction involving regrouping including 'Make Ten', 'Round and adjust' and near doubles strategies. •Add three 1-digit numbers •Introduction to bar models as a representation. •Create, label and sketch bar models. •Compare using symbols •Illustrate and explain addition and subtraction using column method. <ul style="list-style-type: none"> •Calculate the times tables of 2, 5, and 10 by skip counting •Relate the 2 times table to doubling. •Explore representations of multiplication and division.(array, bar models) •Understand commutativity. Multiplication and division facts for 3 and 4 •Relate 4 times table to doubling the 2 times table. •Recognise inverse relationship. <ul style="list-style-type: none"> •Recognise fractions as part of a whole or a whole set. •Relate fractions to division. •Understand equivalent fractions. | <ul style="list-style-type: none"> • Read, write, represent, partition, order and compare 3-digit numbers. •Order and compare beyond 1000. •Find 10, 100 and 1000 more or less. <ul style="list-style-type: none"> •Calculate mentally using known facts, round and adjust, near doubles. •Calculate difference by adding on. •Derive new facts from a known fact. •Round to the nearest multiple of 10 and 100. •Illustrate and explain formal written methods – column method. <ul style="list-style-type: none"> •Know multiplication and division facts for 2, 3, 4, 5, 6, 8 and 10. •Multiplicative structures: equal groups/parts, change and comparison, correspondence problems. •Understand relationships: commutativity and inverse. •Multiply and divide by 10 and 100. •Multiply a 2-digit number by 2, 3, 4, 5 and corresponding division situations •Divide 2-digit by a 1-digit. •Recall and use multiplication and division facts for 6 and 8 times table. <ul style="list-style-type: none"> •Understand fractions as part of a whole or a whole set and as a number. •Add, subtract, compare and order fractions. | <ul style="list-style-type: none"> •Understand 4-digit place value. •Read, write, represent, order and compare 4 digit numbers. •Find 10, 100 or 1000 more or less. •Round numbers to the nearest 10, 100 or 1000. •Explain roman numerals up to 100. <ul style="list-style-type: none"> •Select and explain appropriate addition and subtraction strategies including column method with regrouping. <ul style="list-style-type: none"> •Distributive property including multiplying three 1-digit numbers. •Use mental multiplication and division strategies using place value and known and derived facts. •Use short multiplication and division confidently. •Identify and explore patterns in multiplication tables including 7 and 9. <ul style="list-style-type: none"> •Explore different interpretations and representations of fractions. •Find equivalent fractions. •Represent fractions greater than one as mixed number and improper fractions •Add and subtract fractions with the same denominator including fractions greater than on. •Understand decimals equivalent to tenths, quarters and halves. •Compare and order numbers with same number of decimal places. •Multiply and divide by 10 and 100 including decimals. | <ul style="list-style-type: none"> •Read, write, order and compare numbers up to one million. •Round numbers within one million to the nearest multiple of powers of ten. •Read Roman numerals up to M. •Use a range of mental calculation strategies to add and subtract integers. <ul style="list-style-type: none"> •Illustrate and explain the written method of column addition and subtraction. •Select efficient calculation strategies. •Use mental strategies to add and subtract involving decimals. <ul style="list-style-type: none"> •Use formal written strategies to add, subtract and multiply involving decimals. •Multiply and divide by 10, 100 and 1000 involving decimals/ integers. •Derive multiplication facts involving decimals. •Identify multiples and factors. •Investigate prime numbers. •Illustrate and explain formal multiplication and division strategies such as short and long. •Use a range of mental calculation strategies. •Read, write, order and compare decimals. •Round decimals to the nearest whole number. <ul style="list-style-type: none"> •Represent, identify, name, write, order and compare fractions (including improper and mixed numbers). •Calculate fractions of amounts. •Add, subtract fractions with denominators that are multiples of the same number. •Multiply fractions (and mixed numbers) by a whole number. •Explore percentage, decimal, fraction equivalence. | <ul style="list-style-type: none"> •Represent, read, write, order and compare numbers up to ten million. •Round numbers, make estimates and use this to solve problems in context. •Solve multi-step problems involving addition and subtraction. •Understand the use of brackets. •Use knowledge of the order of operations to carry out calculations. •Generate and describe linear number sequences. •Express missing number problems algebraically. •Solve equations with unknown values. •Identify and use properties of number, focusing on primes. •Multiply larger integers and decimal numbers using a range of strategies. •Divide integers by 1-digit and 2-digit numbers representing remainders appropriately. •Illustrate and explain formal multiplication and division strategies. •Deepen understanding of equivalence. •Order, simplify and compare fractions, including those greater than one. •Recall equivalence between common fractions and decimals. •Find decimal quotients using short division. •Add and subtract fractions. •Use fractions to express proportion. •Identify ratio as a relationship between quantities and as a scale factor. |

| | | | | | | |
|---|--|--|---|---|---|---|
| | | | | | <ul style="list-style-type: none"> •Understand negative numbers and calculating intervals across zero. | |
| Reasoning | | | | | | |
| EYFS | Year 1 | Year 2 | Year3 | Year4 | Year5 | Year6 |
| <ul style="list-style-type: none"> •Recall the days of the week and seasons. •Know what day and season it is. •Sequence daily events. •Describe the weather. •Describe position accurately. (Under, next to etc.) •Describe and sort 2-D and 3- D shapes. •Describe, and sort 3-D shapes. •Recognise, complete and create patterns. •Recognise, describe, copy and extend colour and size patterns. •Recognise and describe all coins. •Explore combinations to total 20p. •Understand idea of change from 10p. •Estimate, order & compare capacity and volume. •Discuss and explore capacity and volume. •- Estimate, order & compare weight and lengths. •Discuss and explore weight & lengths. | <ul style="list-style-type: none"> •Read, write and tell the time to o'clock and half past on analogue clock. •Sequencing daily activities. •Identify, describe, sort and classify 2-D and 3-D shapes. •Investigate repeating patterns. •Use and follow instructional and positional language. •Whole and half turns linked to time. •Name coins and notes and understand their value. •Represent the same value using different coins •Find change. •Compare and measure lengths and mass using cm and kg. •Compare capacities, volumes and lengths. •Apply understanding of fractions to capacity. | <ul style="list-style-type: none"> •Represent and interpret: pictograms, block diagrams, tables and tally charts. •Sequence daily events. •Tell the time on an analogue clock: quarter past, quarter to and five minute intervals. •Calculate durations of time in minutes and seconds. •Understand minutes in an hour and hours in a day. •Explore, sort and describe 2-D shapes. •Understand lines of symmetry in 2-D shapes •Identify 2-D shapes as faces on 3-D shapes •Compare and sort 2-D and 3-D shapes •Use language to describe position, direction and rotation to follow a route. •Recognise coins and notes •Use £ and p accurately •Add and subtract amounts. •Calculate change •Draw and measure lengths in centimetres. •Use more than/ less than symbols to compare and order lengths in metres and centimetres. •Read and measure temperature. •Estimate, measure, order and understand litres and millilitres. •Weigh and compare masses in kilograms and grams. | <ul style="list-style-type: none"> •Collect, interpret and present data using charts and tables. •Measure, draw and compare lengths. •Tell, record, write and order the time analogue and digital •12-hour, a.m., p.m. •Measure, calculate and compare durations. •Identify angles including right angles and recognise as a quarter of a turn. •Identify and draw parallel and perpendicular lines. •Draw/make, classify and compare 2-D and 3-D shapes. •Add and subtract lengths. •Calculate perimeter. •Read scales with different intervals when measuring mass and volume. •Estimate, weigh and compare masses and capacities with mixed units. | <ul style="list-style-type: none"> •Read, interpret and construct pictograms, bar charts and time graphs. •Compare tables, pictograms and bar charts. •Use strategies to investigate problems: trial and improvement, organising using lists and tables, working systematically. •Describe and plot using coordinates •Describe translations. •Understand analogue to digital, 12- hour and 24-hour •Convert between units of time. •Find perimeter of rectangles and rectilinear shapes •Find area of rectangles and rectilinear shapes. •Investigate area and perimeter. •Convert units of measure •Select appropriate units to measure. •Classify, compare and order angles. •Compare and classify 2-D shapes. •Identify lines of symmetry. •Identify 3-D shapes from 2-D representations. | <ul style="list-style-type: none"> •Complete, read and interpret data presented in line graphs. •Read and interpret timetables including calculating intervals. •Calculate the mean. •Convert between metric units of length, mass and capacity and units of time. •Know and use approximate conversion between imperial and metric. •Use cube numbers and notation. •Investigate area and perimeter of rectilinear shapes •Estimate area of non-rectilinear shapes. •Classify, compare and order angles. •Measure and draw angles with a protractor. •Understand and use angle facts to calculate missing angles. •Classify 2-D shapes and reason about regular and irregular polygons. •Explain the properties of diagonals of quadrilaterals. •Classify 3-D shapes. •Understand 2-D representations of 3-D shapes. •Estimate volume. •Convert units of volume | <ul style="list-style-type: none"> •Compare and classify a range of geometric shapes. •Use angle facts to find unknown angles. •Draw a range of geometric shapes using given dimensions and angles. •Describe, draw, translate and reflect shapes on a co-ordinate plane. •Recognise and construct 3-D shapes. •Name and illustrate parts of a circle |
| Application | | | | | | |
| EYFS | Year 1 | Year 2 | Year3 | Year4 | Year5 | Year6 |

| | | | | | | |
|---|--|--|--|--|--|---|
| <ul style="list-style-type: none"> •Classifying objects based on one attribute. •Matching equal and unequal sets. •Comparing objects and sets. • Notice maths in their environment. | <ul style="list-style-type: none"> •Apply known facts to addition and subtraction equations. •Apply addition and subtraction strategies to 1 step word problems. | <ul style="list-style-type: none"> •Use knowledge of graphs and block diagrams to interpret data. •Apply known facts to addition & subtraction. •Apply known facts to solve simple multiplication and division equations. | <ul style="list-style-type: none"> •Use knowledge of graphs and block diagrams to interpret data. •Apply known facts to addition & subtraction. •Apply known facts to solve simple multiplication and division equations. •Use skills for telling the time throughout day. | <ul style="list-style-type: none"> •Use knowledge of graphs to interpret data in other subjects. •Apply known facts to solve simple multiplication and division equations. •Use skills for telling the time throughout day. | <ul style="list-style-type: none"> •Apply known facts to addition & subtraction. •Apply known facts to solve simple multiplication and division equations. | <ul style="list-style-type: none"> •Use knowledge of graphs to interpret data in other subjects. •Use knowledge of money and algebra and ratios to calculate pricing. •Use ratio and algebra to calculate quantities. •Apply known facts to addition & subtraction. •Apply known facts to solve simple multiplication and division equations. •Use knowledge of angles and apply during design and technology. •Use knowledge of co-ordinates for map reading/ geography skills. |
|---|--|--|--|--|--|---|