- Have a deep understanding of number to 10 , including the composition of each number
- Subitise (recognise quantities without counting) up to 5
- Automatically recall (without reference to rhymes, counting and other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10 , including double facts.
ELG: Number patterns
- Verbally count beyond 20 , recognising the pattern of the counting system
- Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity
- Explore and represent patterns within numbers up to 10 , including evens and odds, double facts and how quantities can be distributed equally
- To count confidently
- To show a deep understanding of numbers up to 10
- To match numerals with a group of objects to show how many there are (up to 10)
- To be able to identify relationships and patterns between numbers up to 10
- To show an awareness that numbers are made up of smaller numbers, exploring partitioning in different ways
- To add and subtract one in practical activities
- To measure themselves and everyday objects using a mixture of non-standard and standard measurements
- To develop spatial reasoning using measures
- To begin to order and sequence events using everyday language related to time
- To begin to measure time with timers (e.g. digital stopwatches and sand timers) and calendars
- To explore the use of different measuring tools in everyday experiences and play
- To use informal language (e.g. heart-shaped, handshaped) and some mathematical language to describe shapes around them
- To use spatial language, including following and giving directions, using relative terms
- To develop spatial reasoning with shape and space
- To compose and decompose shapes, and understanding which shapes can combine together to make another shape


## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

## Place Value

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Place Value: Counting | -count to and across 100, forwards and backwards, beginning with 0 or 1 or from any given numbers -count numbers to 100 in numerals, count in multiples of twos, fives and tens 1NPV-1 Count within 100, forwards and backwards, starting with any number. <br> 1NF-2 Count forwards and backwards in multiples of 2,5 and 10 , up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers | -count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backwards | -count from 0 in multiples of $4,8,50$ and 100 ; find 10 more or less than a given number <br> 3NPV-1 Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10. | -count in multiples of 6 , $7,9,25$ and 1000 - count backwards through zero to include negative numbers <br> 4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100 ; apply this to identify and work out how many 100 s there are in other four-digit multiples of 100 . | -count forwards or backwards in steps of powers of 10 for any given number up to 1 000000 <br> - count forwards and backward with positive and negative whole numbers including through zero <br> 5NPV-1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01 . Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01 . | 6NPV-1 Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10,100 and 1,000 ). |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

| $\begin{gathered} \text { Place } \\ \text { Value: } \\ \text { Represent } \end{gathered}$ | -identify and represent numbers using objects and pictorial representations -read and write numbers to 100 in numerals -read and write numbers from 1 to 20 in numerals and words | -read and write numbers to at least 100 in numerals and words -identify, represent and estimate numbers using different representations, including the number line | -identify, represent and estimate numbers using different representations read and write numbers up to 1000 in numerals and words 3NPV-4 Divide 100 into 2, 4,5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with $2,4,5$ and 10 equal parts. | -identify, represent and estimate numbers using different representations -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 4NPV-4 Divide 1,000 into $2,4,5$ and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with $2,4,5$ and 10 equal parts. | -read, write (order and compare) numbers to at least 1000000 and determine the value of each digit -read Roman numerals to $1000(\mathrm{M})$ and recognise years written in Roman numerals <br> 5NPV-4 Divide 1 into 2, 4,5 and 10 equal parts, and read scales/number lines marked in units of 1 with $2,4,5$ and 10 equal parts. | - read, write (order and compare) numbers to at least 10000000 and determine the value of each digit <br> 6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into $2,4,5$ and 10 equal parts, and read scales/number lines with labelled intervals divided into $2,4,5$ and 10 equal parts. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Place Value: Compare | -given a number, identify one more and one less 1NPV-2 Reason about the location of numbers to 20 within the linear number system, including comparing using < > and = | -recognise the place value of each digit in a two digit number - compare and order numbers from 0 to 100: use <, > and = signs <br> 2NPV-2 Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10 . | -recognise the place value of each digit in a three digit number -compare and order numbers up to 1000 <br> 3NPV-2 Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning. <br> 3NPV-3 Reason about the location of any three-digit number in the linear number system, including | -find 1000 more or less than a given number - recognise the place value of each digit in a four digit number -compare and order numbers beyond 1000 <br> 4NPV-2 Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and nonstandard partitioning. <br> 4NPV-3 Reason about the location of any four digit number in the linear | -(read, write) order and compare numbers to at least 1 000000 and determine the value of each digit <br> 5NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and nonstandard partitioning. | -(read, write) order and compare numbers up to 10 000000 and determine the value of each digit <br> 6NPV-2 Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and nonstandard partitioning. |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

|  |  | identifying the previous and next multiple of 100 and 10 . | number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each. | 5NPV-3 Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each. | 6NPV-3 Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Place <br> Value: <br> Problems <br> and <br> Rounding | -use place value and number facts to solve problems | -solve number problems and practical problems involving these ideas | -round any number to the nearest 10,100 and 1000 <br> -solve number and practical problems that involve all of the above and with increasingly large positive numbers | -interpret negative numbers in context -round any number up to 1000 000 to the nearest 10,100 , 1000, <br> 10000 , and 100, 000 solve number problems and practical problems that involve all of the above | -round any number to a required degree of accuracy - use negative numbers in context, and calculate intervals across zero solve number problems and practical problems that involve all of the above |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

## Addition and Subtraction

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Addition \& Subtraction: Recall, Represent and Use | -read, write and interpret mathematical statements involving <br> addition, subtraction and equals (same as) signs -represent and use number bonds and related subtraction facts within 20 1NF-1 Develop fluency in addition and subtraction facts within 10. <br> 1AS-1 Compose numbers to 10 from 2 parts, and partition numbers to 10 into parts, including recognising odd and even numbers. <br> 1AS-2 Read, write and interpret equations containing addition (+), subtraction ( - ) and equals (=) symbols, and relate additive expressions and equations to reallife contexts. | -recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 2NF-1 Secure fluency in addition and subtraction facts within 10, through continued practice. -show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot -recognise and use inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems <br> 2AS-1 Add and subtract across 10. <br> 2AS-2 Recognise the subtraction structure of 'difference' and answer | -estimate the answer to a calculation and use inverse operations to check answers <br> 3NF-1 Secure fluency in addition and subtraction facts that bridge 10 , through continued practice. <br> 3AS-3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part- part-whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction. | -estimate and use inverse operations to check answers to a calculation | -use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy | 6AS/MD-1 Understand <br> that 2 numbers can be related additively or multiplicatively, and quantify additive and multiplicative relationships (multiplicative relationships restricted to multiplication by a whole number). <br> 6AS/MD-2 Use a given additive or multiplicative calculation to derive or complete a related $\qquad$ calculation, using arithmetic properties, inverse placerelationships, and place value understanding. |

FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

|  |  | questions of the form, "How many more...?". |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  <br> Subtraction: <br> Calculations | -add and subtract one-digit and two digit numbers to 20 , including zero | -add and subtract numbers using concrete objects, pictorial representations and mentally including: a two digit number and ones, a two digit number and tens, two two digit numbers and adding three one digit numbers <br> 2AS-3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number. <br> 2AS-4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers. | -add and subtract mentally including: a three digit number and ones, a three digit number and tens and a three digit number and hundreds -add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <br> 3NF-1 Secure fluency in addition and subtraction facts that bridge 10, through continued practice. <br> 3AS-1 Calculate complements to 100. <br> 3AS-2 Add and subtract up to three-digit numbers using columnar methods. | -add and subtract numbers with up to 4 digits using the formal written method of columnar addition and subtraction where appropriate | -add and subtract whole numbers with more than 4 digits using the formal written methods (columnar addition and subtraction) -add and subtract numbers mentally with increasingly large numbers | -perform mental calculations, including with mixed operations and large numbers -use their knowledge of the order of operations to carry out calculations involving the four operations |
| Addition \& Subtraction: Solve Problems | -solve on step problems that involve addition and subtraction, using concrete objects and pictorial representation and missing number problems | -solve problems with addition and subtraction: using concrete and pictorial representations, including those involving numbers, quantities and measures, applying their increasing | -solve problems including missing numbers, number problems, using number facts, place value and more complex addition and subtraction | -solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why | -solve addition and subtraction two-step problems in context, deciding which operations and methods to use and why | -solve addition and subtraction multistep problems in contexts, deciding which operations and method to use and why |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP



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## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

Multiplication and Division

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Multiplication and division : Recall, Represent and Use | 1NF-2 Count forwards and backwards in multiples of 2, 5 and 10 , up to 10 multiples, beginning with any multiple, and count forwards and backwards through the odd numbers. | -recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers <br> -show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot <br> 2MD-1 Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables. | -recall and use <br> multiplication and division facts for the <br> 3,4 and 8 <br> multiplication tables <br> 3NF-2 Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number. | - recall multiplication and division facts for multiplication tables up to $12 \times 12$ <br> -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 <br> 4NF-1 Recall multiplication and division facts up to 12 X 12 , and recognise products in multiplication tables as multiples of the corresponding number <br> 4MD-1 Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size. | -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 <br> -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 correct notation <br> 5NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice. <br> 5MD-2 Find factors and multiples of positive whole numbers, including common factors and common multiples, and | -identify common factors, common multiples and prime numbers <br> - use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy. |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

|  |  |  | 4MD-2 Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication. <br> 4MD-3 Understand and apply the distributive property of multiplication. | express a given number as a product of 2 or 3 factors. |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  <br> Division: <br> Calculations | -calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication, division and equals sign <br> 2MD-2 Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotitive division). | - 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 <br> 3MD-1 Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division. | - multiply two digit and three digit numbers by a one digit number using formal written layout | -multiply numbers up to 4 digits by a one or two digit number using formal written method including long multiplication for two digit numbers <br> - multiply and divide numbers mentally drawing upon know 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 context <br> -multiply and divide whole numbers and those | -multiply multi-digit numbers up to 4 digits by a two digit whole number using the formal written method of long multiplication -divide number up to 4 digits by a two digit whole number using the formal written method for long division and interpret remainders as whole number remainders, fractions, or by rounding as appropriate for the context -divide number up to 4 digits by a two digit whole number using the formal |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP



## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

|  |  | factor, and to division <br> equations (quotitive <br> division). |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- |
| Multiplication <br>  <br> Combined <br> Operations |  |  |  | -solve problems involving <br> addition, subtraction, <br> multiplication and division <br> and a combination of <br> these, including the <br> understanding of the <br> equals sign |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

## Fractions, Decimals and Percentages

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fractions: Recognise and Write | -recognise, find and name a half as one of two equal parts of an object, shape or quantity <br> -recognise, find and name a quarter as one of four equal parts of an object, shape or quantity | -recognise, find, name and write fractions $\frac{1}{3} \quad \frac{1}{4} \quad \frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity | -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. <br> -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 3F-1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. <br> $3 F-2$ Find unit fractions of quantities using known division facts (multiplication tables fluency) <br> 3F-3 Reason about the location of any fraction | -count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. <br> 4F-1 Reason about the location of mixed numbers in the linear number system. <br> 4F-2 Convert mixed numbers to improper fractions and vice versa. | -identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths -recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements e.g. $\frac{2}{5}+$ $\frac{4}{5}=\frac{6}{5}=1 \frac{1}{5}$ <br> 5F-1 Find non-unit fractions of quantities. <br> 5F-2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system. | 6F-1 Recognise when fractions can be simplified, and use common factors to simplify fractions. <br> 6F-2 Express fractions in a common denomination and use this to compare fractions that are similar in value. |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

|  |  | within 1 in the linear number system. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fractions: Compare | -recognise the equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ | -recognise and show using diagrams, equivalent fractions with small denominators -compare and order unit fractions and fractions with the same denominators | -recognise and show using diagrams families of common equivalent fractions | -compare and order fractions whose denominators are all multiples of the same number | -use common <br> factors to simplify fractions; use <br> common multiples <br> to express fractions I <br> the same denominator <br> -compare and order <br> fractions <br> 6F-3 Compare fractions <br> with different denominators, <br> including fractions greater <br> than 1 , using reasoning, <br> and choose between <br> reasoning and common <br> denomination as a <br> comparison strategy. |
| Fractions: Calculation S | -write simple fractions for example $\frac{1}{2}$ of $6=3$ | -add and subtract fractions with the same denominator within one whole e.g. $\frac{5}{7}+\frac{1}{7}=\frac{6}{7}$ <br> 3F-4 Add and subtract fractions with the same denominator, within 1. | - add and subtract fractions with the same denominator <br> 4F-3 Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers. | -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 | -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 -divide proper fractions by whole numbers |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

| Fractions: |
| :--- |
| Solve |
| Problems |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP



Ratio and Proportion

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ratio and Proportion |  |  |  |  |  | -solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts <br> -solve problems involving the calculation of percentages and the use of percentages for comparison <br> -solve problems involving similar shapes where the scale factor is known or can be found <br> -solve problems involving unequal sharing and grouping using knowledge of fractions and multiples 6AS/MD-3 Solve problems involving ratio relationships. |

## Algebra

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Algebra |  |  |  |  |  | -use simple formulae generate and describe linear number sentences -express missing number problems algebraically -find pairs of numbers that satisfy an equation with two unknown -enumerate possibilities of combinations of two values 6AS/MD-4 Solve problems with 2 unknowns. |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

Measurement

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Measure <br> ment: <br> Using <br> Measures | -compare, describe and solve practical problems for: length/height, mass/weight, capacity/volume and time - measure and begin to record the following: length/height, mass/weight, capacity/volume and time | -choose and use appropriate standard units to estimate and measure length/ height in any direction; mass; temperature and capacity to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels. <br> - compare and order length, mass, volume/capacity and record the results using <, > and $=$ | -measure, compare add and subtract; lengths, mass, volume and capacity | -convert between different units of measure e.g. KM to M -estimate, compare and calculate different measures | - convert between different units of measure e.g. L to ML - understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints -use all four operations to solve problems involving measures using decimal notation <br> 5NPV-5 Convert between units of measure, including using common decimals and fractions. | -solving problems involving the calculations and conversions of units of measure, using decimal notation up to three decimals 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 or vice versa using decimal notation up to three decimal places -convert between miles and kilometres |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

| Measure <br> ment: <br> Money | -recognise and know the <br> denomination of different <br> notes and coins | -recognise and use symbols <br> for pounds and pence; <br> combine amounts to make a <br> particular value -find <br> different combinations of <br> coins that equal the same <br> amount of money <br> - solve simple problems in <br> practical contexts involving <br> addition and subtraction of <br> money of the same unit <br> including giving change | -add and subtract amounts <br> of money to give change, <br> using both £ and pence in <br> practical contexts | -estimate, compare and <br> calculate different measures, <br> including money in pounds <br> and pence | - use all four operations to <br> solve problems involving <br> measure |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

| Measure <br> ment: <br> Perimeter <br> Area and <br> Volume |  | -measure the perimeter of <br> simple 2D shapes | -measure and calculate the <br> perimeter of <br> rectilinear figure in <br> centimeters and meters <br> - find the area of rectilinear <br> shapes by counting squares | -measure and calculate the <br> perimeter of composite <br> rectilinear shapes in <br> centimeters and meters - <br> calculate and compare the <br> area of rectangles and <br> estimate the area of <br> irregular shapes -estimate <br> volume and capacity | -recognise that shapes with <br> the same areas can have <br> different perimeters and vice <br> versa. <br> -recongnise when it is <br> possible to use formulae for <br> area and volumes of shapes <br> parallelograms and triangles <br> -estimate volume and <br> capacity of cubes and <br> cuboids |
| :--- | :--- | :--- | :--- | :--- | :--- |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

## Geometry

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { Geometry: } \\ 2 D \\ \text { Shapes } \end{gathered}$ | -recognise and name common 2D shapes <br> 1G-1 Recognise common 2 D <br> and 3D shapes presented in different orientations, and know that rectangles, triangles, cuboids and pyramids are not always similar to one another. | -identify and describe the properties of 2D shapes including the number of sides and lines of symmetry -identify 2D shapes on the surface of 3D shapes -compare and sort common 2D shapes and everyday objects 2G-1 Use precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties | -draw 2D shapes <br> 3G-2 Draw polygons by joining marked points, and identify parallel and perpendicular sides. | -compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes -identify lines of symmetry in 2D shapes presented in different orientations 4G-2 Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons. <br> 4G-3 Identify line symmetry in 2D shapes presented in different orientations. Reflect shapes in a line of symmetry and complete a symmetric figure or pattern with respect to a specified line of symmetry. | -distinguish between regular and irregular polygons based on reasoning about equal sides and angles -use the properties of rectangles to deduce related facts and find missing lengths and angles | -draw 2D shapes using given dimensions and angles -compare and classify geometric shapes based upon their properties and size illustrate and name parts of circles including: radius, diameter and circumference and know the diameter is twice the radius 6G-1 Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems. |
| $\begin{gathered} \text { Geometry: } \\ 3 D \\ \text { Shapes } \end{gathered}$ | -recognise and namecommon 3D shapes 1G-2 Compose 2D and 3Dc shapes from smaller shapes to match an example, including | recognise and name common 3D shapes and compare and sort them | -make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them |  | -identify 3D shapes including cubes and other cuboids from 2D representations | -recognise, describe and build simple 3D shapes including making nets |

FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

|  | manipulating shapes to place them in particular orientations. |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Geometry: Angles and Lines |  |  | -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 <br> -identify horizontal and vertical lines and pairs of perpendicular and parallel lines <br> 3G-1 Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations. | -identify acute and obtuse angles and compare and order angles up to two right angles by size -identify lines of symmetry in 2D shapes presented in different orientations -complete a simple symmetric figure with respect to a specific line of symmetry | -know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles -draw given angles and measure them in degrees - identify angles at a point and one whole turn total 360 degrees -identify angles at a point on a straight line total 180 degrees <br> 5G-1 Compare angles, estimate and measure angles in degrees ( ${ }^{\circ}$ ) and draw angles of a given size. | -find known angles in any triangle, quadrilaterals and regular polygons - recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles |
| Geometry: Position and Direction | -describe position, directionand movement, includingc whole, half, quarter, and threem quarter turns | -order and arrange combinations of mathematical objects in patterns and sequences -use mathematical vocabulary to describe position, direction and movement. |  | -describe positions on a 2D grid as coordinates in the first quadrant -describe movements between position as translations of a given unit. 4G-1 Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant. | -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 | -describe positions on the full coordinate grid -draw and translate simple shapes on the coordinate plane, and reflect them in the axes |

## FORSBROOK CE PRIMARY MATHEMATICS PROGRESSION MAP

## Statistics

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Statistics: <br> Present and Interpret |  | -interpret and construct simple pictograms, tally charts, block diagrams and simple tables | -interpret and present data using bar charts, pictograms and tables | -interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs | -complete, read and interpret information in tables, including timetables | -interpret and construct pie charts and line graphs and use these to solve problems |
| Statistics: Solve Problems |  | -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 data | -solve one and two step questions using information presented in scaled bar charts and pictograms and tables | -solve comparison, sum and difference problems using information presented in bar charts, pictograms tables and other graphs | -solve comparison, sum and difference problems using information presented in a line graph | -calculate and interpret the mean as an average |


[^0]:    -solve problems involving addition,
    subtraction,
    multiplication and division and a combination of these
    including understanding the meaning of the equals
    sign

