

# Maths Place Value Progression Pathway Y1-Y6



Year 1

- a. Can read numbers to 10 and extend to 20 in numerals
- b. Can count accurately objects up to 20
- c. Can count independently numbers up to 20 forwards and backwards
- d. Can count out a given number of objects up to 10 from a larger group
- e. Can say 1 more than a number up to 10 and extend to 20
- f. Can say 1 less than a number up to 10 and extend to 20
- g. Can say 1 more than a number up to 100
- h. Can say 1 less than a number up to 100
- i. Can represent a number up to 10 using practical equipment such as multi link cubes
- j. Can identify and represent a number using practical objects and pictorial representations including a number line
- k. Can solve simple problems involving place value

Year 2

- a. Can understand the value of 1s and 10s in any two - digit number
- b. Can say 1 more and 1 less than a number up to 100
- c. Can partition one-digit numbers e.g.  $7 = 4 + 3$  or  $5 + 2$  or  $6 + 1$
- d. Can partition two-digit numbers in different combinations of 10s and 1s e.g.  $43 = 40 + 3$  or  $30 + 13$  or  $20 + 23$  or  $10 + 33$
- e. Can identify and represent two-digit numbers using different representations such as number lines or base ten apparatus etc.
- f. Can estimate where a two-digit number would be placed on a 0 - 100 number line where tens divisions are marked
- g. Can read and write numbers to at least 100 in numerals including using 0 as a place holder e.g. 109
- h. Can order more than two numbers using a blank number line
- i. Can solve problems using place value and number facts

Year 3

- a. Can find 1000 more or 1000 less than a given number
- b. Can count backwards through zero in steps that are familiar from the previous year e.g. 1, 2, 5, 10, 3
- c. Can understand the place value of each digit in a three-digit and four-digit number
- d. Can compare and order numbers beyond 1000
- e. Can represent numbers up to and beyond 1000 using different representations, including measuring equipment
- f. Can round any number to the nearest 10, 100 or 1000, using the context of measures
- g. Can solve problems using place value and number facts

Year 4

- a. Can read and write numbers to at least 100 and extend to 1000 in numerals and words
- b. Can find 10 more or 10 less than a given number up to 100 and extend to 1000
- c. Can find 100 more or 100 less than a given number up to 1000
- d. Can understand the place value of each digit in a two-digit and three-digit number
- e. Can represent two-digit and three-digit numbers using different representations including the number line, base 10 apparatus etc
- f. Can compare and order numbers up to 100 and extend to 1000 sometimes using the  $<$ ,  $>$  and  $=$  signs correctly
- g. Can solve problems using place value and number facts

Year 5

- a. Can read and write numbers up to 1 000 000
- b. Can order and compare numbers up to 1 000 000
- c. Can understand the place value of each digit in numbers up to 1 000 000
- d. Can interpret negative numbers in context, such as temperature
- e. Can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 or 100 000
- f. Can solve problems using place value and number facts

Year 6

- a. Can read, write and order whole numbers up to 10 000 000
- b. Can read, write and order numbers up to 3 decimal places
- c. Can round any whole number to the nearest 10, 100, 1000 etc
- d. Can round decimals to the nearest whole number and to one or two decimal places
- e. Can use place value to multiply whole numbers by 10, 100 or 1000
- f. Can use place value to multiply decimal numbers by 10, 100 or 1000
- g. Can use place value to divide whole numbers by 10, 100 or 1000
- h. Can use place value to divide decimal numbers by 10, 100 or 1000
- i. Can use negative numbers in context and calculate intervals across zero

# Maths Addition and Subtraction Progression Pathway Y1-Y6

Year 1

- a. Can use number bonds to 10 and all the numbers in between e.g.  $5 + 2 = 7$
- b. Can use subtraction facts to 10 and all the numbers in between e.g.  $4 - 3 = 1$
- c. Can use addition number bonds within 20
- d. Can use subtraction facts within 20
- e. Can read and understand mathematical statements that include +, - and = signs
- f. Can add two one-digit numbers using concrete objects or pictorial representations
- g. Can subtract two one-digit numbers using concrete objects or pictorial representations e.g.  $7 - 3 = 4$
- h. Can add a two-digit number and a one-digit number within 20
- i. Can subtract a one-digit number from a two-digit numbers using concrete objects or pictorial representations e.g.  $13 - 6 = 7$
- j. Can solve simple problems involving addition using concrete objects
- k. Can solve simple problems involving subtraction using concrete objects

Year 2

- a. Can recall addition facts to 10 and 20 and all the numbers in between fluently e.g.  $15 + 2 = 17$
- b. Can recall subtraction facts to 10 and 20 and all the numbers in between fluently e.g.  $14 - 3 = 11$
- c. Can use addition number bonds to 10 and 20 to derive related facts to 100 using multiples of 10 e.g.  $70 + 30 = 100$
- d. Can use subtraction facts to 10 and 20 to derive related facts to 100 using multiples of 10 e.g.  $100 - 30 = 70$
- e. Can add a two-digit number and 1s using concrete objects or pictorial representations
- f. Can subtract a two-digit number and 1s using concrete objects or pictorial representations
- g. Can add a two-digit number and 10s using concrete objects or pictorial representations
- h. Can subtract a two-digit number and 10s using concrete objects or pictorial representations
- i. Can add 2 two-digit numbers using concrete objects or pictorial representations
- j. Can subtract 2 two-digit numbers using concrete objects or pictorial representations where no regrouping is required e.g.  $74 - 32$
- k. Can subtract 2 two-digit numbers using concrete objects or pictorial representations where regrouping is required e.g.  $63 - 36 =$
- l. Can solve problems involving addition using concrete objects and pictorial representations involving numbers, quantities and measures
- m. Can solve problems involving subtraction using concrete objects and pictorial representations involving numbers, quantities and measures

Year 4

- a. Can add two digit and extend to three digit numbers using the formal column method
- b. Can subtract two digit and extend to three-digit numbers using the formal column method
- c. Can choose whether to add or subtract mentally or using a formal method
- d. Can use knowledge of inverse operations to check answers to addition and subtraction calculations.
- e. Can solve two-step problems involving addition and subtraction, deciding which operation to use

Year 3

- a. Can fluently recall all addition and subtraction facts within 20
- b. Can add three single digit numbers mentally
- c. Can add a two-digit and extend to three-digit number and ones mentally
- d. Can add a two digit and extend to three-digit number and tens mentally
- e. Can subtract three single digit numbers mentally
- f. Can subtract a two digit and extend to three-digit number and ones mentally
- g. Can subtract a two digit and extend to three-digit number and tens mentally
- h. Can add two-digit and extend to three-digit numbers using the expanded column method (not bridging ten)
- i. Can add two-digit and extend to three-digit numbers using the expanded column method (bridging ten)
- j. Can subtract two-digit numbers using the expanded column method (not bridging ten)
- k. Can subtract two-digit numbers using the expanded column method (bridging ten)
- l. Can use knowledge of inverse operations to check answers to addition and subtraction calculations.
- m. Can solve problems including missing number problems involving addition
- n. Can solve problems including missing number problems involving subtraction

Year 5

- a. Can add three digit and extend to four-digit numbers using the formal column method
- b. Can subtract three digit and extend to four-digit numbers using the formal column method
- c. Can add and subtract increasingly large numbers mentally e.g.  $12\ 462 - 2\ 300 = 10\ 162$
- d. Can use rounding to check answers to addition and subtraction calculations.
- e. Can solve multi-problems involving addition and subtraction, deciding which operation and which method to use

Year 6

- a. Can use mental methods of computation for addition
- b. Can use mental methods of computation for subtraction
- c. Can use efficient written methods of addition including column addition
- d. Can use efficient written methods of subtraction including column subtraction
- e. Can add decimal numbers up to 3 dp (including money)
- f. Can subtract decimal numbers up to 3 dp (including money)



# Maths Multiplication and Division Progression Pathway Y1-Y6

Year 1

- a. Can double numbers up to 10 using practical objects and extend to 20
- b. Can halve numbers up to 10 using practical objects and extend to 20
- c. Can count in 2s to find out how many dots/cubes etc there are in an array or pattern
- d. Can count in 10s to find out how many dots/cubes etc there are in an array or pattern
- e. Can count in 5s to find out how many dots/cubes etc there are in an array or pattern
- f. Can solve simple problems involving doubling and halving/sharing using concrete objects

Year 2

- a. Can use the  $\times$ ,  $\div$  and  $=$  signs to write mathematical statements
- b. Can recall and use multiplication facts for the 2 times table
- c. Can recall and use division facts for the 2 times table
- d. Can recall and use multiplication facts for the 5 times table
- e. Can recall and use division facts for the 5 times table
- f. Can recall and use multiplication facts for the 10 times table
- g. Can recall and use division facts for the 10 times table
- h. Can recognise and explain odd & even numbers within the context of the patterns in the 2, 5 and 10 multiplication tables
- i. Can calculate mathematical statements for multiplication using the 2, 5 and 10 times tables
- j. Can calculate mathematical statements for division using the 2, 5 and 10 times tables
- k. Can solve problems involving multiplication using concrete objects or pictorial representations
- l. Can solve problems involving division using concrete objects and pictorial representations

Year 3

Year 4

- a. Can recall and use multiplication and division facts for the 3, 4 & 8 times tables
- b. Can recall and use multiplication and division facts for all the times table (learning 6, 12, 9, 11 and 7)
- c. Can multiply and divide mentally using derived facts such as  $600 \div 3 = 200$  because  $2 \times 3 = 6$  or the associative law ( $2 \times 6 \times 5 = 10 \times 6 = 60$ )
- d. Can multiply two digit and three digit by one digit numbers using short multiplication
- e. Can divide two-digit by one-digit numbers using informal methods such as known facts, arrays and number lines (repeated subtraction)
- f. Can begin to divide three digit by one digit numbers with exact answers using short division
- g. Can solve problems involving multiplication and division

- a. Can recall and use multiplication and division facts for the 2, 5 and 10 times tables
- b. Can recall and use multiplication and division facts for the 3 times table
- c. Can write mathematical statements for known multiplication and division facts using  $\times$ ,  $\div$  and  $=$
- d. Can multiply two-digit by one-digit numbers using informal methods such as arrays, base 10 apparatus etc
- e. Can multiply two digit by one digit numbers using partitioning and known facts (e.g.  $24 \times 3 = 3 \times 4 = 12$  and  $3 \times 20 = 60$ .  $60 + 12 = 72$ )
- f. Can divide two-digit by one-digit numbers using informal methods such as known facts, arrays and number lines (repeated subtraction)
- g. Can solve missing number problems involving multiplication and division
- h. Can solve problems involving multiplication and division

Year 5

- a. Can recall and use multiplication and division facts for all the times tables
- b. Can multiply and divide mentally using known facts
- c. Can multiply and divide whole numbers and decimals by 10, 100 and 1000
- d. Can multiply up to four-digit numbers by one-digit numbers using short multiplication
- e. Can multiply up to four-digit numbers by two-digit numbers using long multiplication
- f. Can divide up to four-digit numbers by one-digit using short division
- g. Can interpret remainders in context as fractions, decimals or by rounding
- h. Can identify multiples and factors
- i. Can establish whether a number up to 100 is prime
- j. Can recall prime numbers up to 19
- k. Can recognise and use square numbers and cube numbers
- l. Can solve problems using multiples, factors, square numbers and cube numbers
- m. Can solve problems using simple scaling such as kilometres to metres
- n. Can solve problems using a mixture of all four operations, including missing number problems

Year 6

- a. Can recall multiplication facts up to  $12 \times 12$  and quickly derive corresponding division facts
- b. Can use tables and place value calculations with multiples of 10
- c. Can use mental methods of computation for multiplication
- d. Can use mental methods of computation for division
- e. Can use efficient written methods of multiplication including short and long multiplication
- f. Can use efficient written methods of division including short and long division
- g. Can multiply a simple decimal by a single digit
- h. Can identify multiples and common multiples
- i. Can identify factors and common factors
- j. Can recognise and describe square numbers
- k. Can recognise and identify prime numbers



# Maths Fractions Progression Pathway Y1-Y6

Year 1

- a. Can understand that two halves make one whole in a practical context
- b. Can find  $1/2$  of a shape, object or group of objects in a practical context
- c. Can find  $1/2$  of a quantity
- d. Can understand that  $1/4$  represents one of four equal parts of a whole
- e. Can find  $1/4$  of a shape or object
- f. Can find  $1/4$  of a quantity

Year 2

- a. Can understand that the bottom number (denominator) denotes the number of equal parts the whole is divided into
- b. Can understand that the top number in a fraction (numerator) denotes the number of equal parts represented
- c. Can understand  $1/2$  represents one of two equal parts of a whole
- d. Can find  $1/2$  of a shape or set of objects
- e. Can understand that  $1/4$  represents one of four equal parts of a whole
- f. Can find  $1/4$  of a shape or set of objects
- g. Can understand  $1/3$  represents one of three equal parts of one whole
- h. Can find  $1/3$  of a shape and set of objects
- i. Can understand  $2/4$  represents two of four equal parts of a whole
- j. Can find  $2/4$  of a shape or set of objects
- k. Can recognise the equivalence between  $2/4$  and  $1/2$
- l. Can understand that  $3/4$  represents three of four equal parts of a whole
- m. Can find  $3/4$  of a shape or set of objects
- n. Can write a fraction represented in a shape or set of objects ( $1/2$ ,  $1/3$ ,  $1/4$ ,  $2/4$ ,  $3/4$ )
- o. Can solve and write simple fractions such as  $1/2$  of  $6 = 3$

Year 4

- a. Can order fractions, numbers and measures on a number line and recognise simple equivalence
- b. Can show equivalent fractions using diagrams such as a fraction wall or a grid of squares
- c. Can count in hundredths
- d. Can place common fractions on a number line e.g.  $1/4$ s,  $1/2$ s,  $1/3$ s,  $1/10$ s,  $1/5$ s
- e. Can find increasingly harder fractions of a set of objects e.g.  $1/3$ ,  $1/6$ ,  $1/8$  and non-unit fractions where the answer is a whole number
- f. Can add fractions with the same denominator
- g. Can subtract fractions with the same denominator
- h. Can recognise and write the decimal equivalent of any number of tenths or hundredths
- i. Can recognise and write the decimal equivalent to  $1/4$ ,  $1/2$  and  $3/4$ , showing it on a number line
- j. Can find the effect of dividing one and two digit numbers by 10 and 100, giving the answer in ones, tenths and hundredths
- k. Can round numbers with one decimal place to the nearest whole number, using a number line
- l. Can compare numbers with the same number of decimal places, up to two decimal places
- m. Can solve simple money/fraction problems up to two decimal places

Year 3

- a. Can understand the relationship between fractions, division and multiplication facts
- b. Can understand that the denominator denotes the number of equal parts the whole is divided into
- c. Can understand that the numerator denotes the number of equal parts represented
- d. Can place  $1/4$ ,  $1/2$ ,  $3/4$  and  $1/4$ ,  $1/2$ ,  $3/4$  etc on a number line
- e. Can find  $1/2$ ,  $1/4$  or  $3/4$  of a shape or set of objects
- f. Can place  $1/3$ ,  $1/3$ ,  $2/3$ ,  $2/3$ ,  $2/3$  etc on a number line
- g. Can understand  $1/3$  represents one of three equal parts of one whole
- h. Can find  $1/3$  of a shape and set of objects
- i. Can recognise that tenths arise from dividing an object into ten equal parts
- j. Can find one tenth of a shape or set of objects by dividing by 10
- k. Can recognise and show using diagrams, counters or paper folding equivalent fractions with small denominators e.g.  $1/3$  and  $2/6$
- l. Can solve problems involving fractions

Year 5

- a. Can compare and order fractions whose denominators are multiples of the same number
- b. Can identify, name and write equivalent fractions of a given fraction, represented visually
- c. Can recognise mixed numbers and improper fractions
- d. Can convert from mixed numbers to improper fractions and from improper fractions to mixed numbers
- e. Can add fractions with the same denominator and denominators that are multiples of the same number
- f. Can subtract fractions with the same denominator and denominators that are multiples of the same number
- g. Can multiply proper fractions and mixed numbers by whole numbers using diagrams, bar models and/or fraction pieces
- h. Can read and write decimal numbers as fractions e.g.  $0.71 = 71/100$
- i. Can recognise and use hundredths
- j. Can round decimals with 2 decimal places to the nearest whole number and to one decimal place
- k. Can read, write, order and compare numbers with up to three decimal places
- l. Can solve problems involving numbers up to three decimal places
- m. Can recognise the % symbol and understand that it relates to the number of parts per hundred
- n. Can write percentages as fractions with denominator 100 as part of a decimal
- o. Can understand that percentages, decimals and fractions are different ways of expressing proportion
- p. Can solve problems which require knowing percentage, decimal and fraction equivalence for  $1/2$ ,  $1/4$ , fifths and multiples of 10 or 25

Year 6

- a. Can identify, name and write equivalent fractions of a given fraction represented visually
- b. Can use common factors to simplify fractions
- c. Can compare and order fractions
- d. Can add and subtract fractions
- e. Can multiply fractions by whole numbers
- f. Can multiply pairs of fractions, writing the answer in its simplest form
- g. Can divide fractions by whole numbers
- h. Can convert mixed numbers to improper fractions
- i. Can convert improper fractions to mixed numbers
- j. Can read and write decimal numbers as fractions
- k. Can recognise approximate proportions of a whole number using percentages
- l. Can recognise simple equivalence between fractions, decimals and percentages



# Maths Measures Progression Pathway Y1-Y6

Year 1

- Can use the language related to length and height such as long, short, longer, shorter, tall, short, double, halve
- Can use the language related to mass and weight such as heavy, light, heavier than, lighter than
- Can use the language related to capacity and volume e.g. Full, empty, more than, less than, half, half full, quarter
- Can use the language related to time such as quicker, slower, earlier, later
- Can solve simple problems involving comparing measures in a practical context
- Can measure and begin to record length and height using non standard units and extend to standard units
- Can measure and begin to record mass and weight using non standard units and extend to standard units
- Can measure and begin to record capacity and volume using non standard units and extend to standard units
- Can recognise the value of different coins and notes
- Can tell the time on an analogue clock using o' clock and half past

Year 2

- Can choose and use appropriate standard units to measure length and height (m/cm using rulers, metre sticks, tape measure etc.)
- Can choose and use appropriate standard units to measure mass (kg/g using scales, balance scales etc.)
- Can choose and use appropriate standard units to measure temperature ( $^{\circ}\text{C}$  using thermometers.)
- Can choose and use appropriate standard units to measure capacity (l/ml using different measuring vessels.)
- Can compare and order two or more different measurements (length, mass, temperature or capacity/volume)
- Can use the symbol p for pence and £ for pounds when combining amounts to make a particular value e.g.  $20\text{p} + 5\text{p} = 25\text{p}$ ,  $\text{£}2 + \text{£}1 = \text{£}3$
- Can solve simple problems in a practical context involving addition of money of the same unit
- Can solve simple problems in a practical context involving subtraction of money of the same unit, including giving change including giving change
- Can tell the time on an analogue clock using o' clock, half past, quarter to and quarter past
- Can tell the time on an analogue clock to five minutes

Year 4

- Can convert between metric units of length
- Can convert between metric units of mass
- Can convert between metric units of capacity
- Can convert between units of time
- Can read, write and convert between analogue and digital 12 and 24 hour clocks
- Can estimate length
- Can estimate mass
- Can estimate capacity
- Can measure and calculate the perimeter of rectangular shapes, including squares
- Can find the area by counting squares
- Can solve problems comparing and converting different units of measure, including money and time

Year 3

- Can understand the relationship between mm, cm, m and g, kg and ml, l.
- Can compare and order lengths using mm, cm and m
- Can measure lengths using appropriate measuring equipment and record using the correct unit
- Can compare and order mass using g and kg
- Can measure mass using appropriate measuring equipment and record using the correct unit
- Can compare and order capacity using ml and l
- Can measure capacities using appropriate measuring equipment and record using the correct unit
- Can calculate the value of the increment on a simple scale given some information e.g 0 to 100 in four increments equals 25
- Can add amounts of money within £1 and extend beyond £1
- Can subtract an amount of money within £1 and extend to beyond £1
- Can combine amounts and calculate change
- Can tell the time to the nearest minute
- Can tell the time on a 24 hour digital clock
- Can calculate how long an event takes given the start and finish time e.g bus journey
- Can calculate start/finish time given start/finish time e.g time a film finishes given start time

Year 5

- Can convert between different units of metric measures, using place value
- Can understand and use equivalence between metric and imperial units of measure, such as inches, pounds and pints
- Can measure and calculate the perimeter of composite rectilinear shapes, including squares
- Can measure and calculate the area of a rectangle, including a square
- Can estimate the area of an irregular shape
- Can estimate volume
- Can estimate capacity
- Can solve problems involving converting units of time
- Can use all four operations to solve problems involving measure

Year 6

- Can interpret, with appropriate accuracy, numbers on scales and a range of measuring instruments
- Can measure and calculate the perimeter of compound shapes
- Can find the area of rectangles
- Can find the area of parallelograms and triangles
- Can understand and use volume of cubes and cuboids
- Can convert between units of metric measure
- Can understand and use the approximate equivalences between metric units and common imperial units
- Can solve problems involving conversion between units of time



# Maths Properties of Shape Progression Pathway Y1-Y6

Year 1

- a. Can recognise and name 2D shapes such as squares, rectangles, circles and triangles
- b. Can recognise and name 3D shapes such as cuboids, cubes and spheres

Year 2

- a. Can identify and describe 2D shapes using knowledge of properties including number of sides (including in different orientations)
- b. Can identify a line of symmetry in 2D shapes
- c. Can identify and describe 3D shapes using knowledge of properties including number of faces, edges and vertices
- d. Can compare and sort 2D & 3D shapes including everyday objects using knowledge of properties

Year 3

- a. Can recognise and describe the properties of 2D and 3D shapes using appropriate vocabulary (including in different orientations)
- b. Can compare and sort 2D and 3D shapes according to their geometric properties
- c. Can identify horizontal lines of symmetry in 2D shapes
- d. Can identify right angles
- e. Can identify whether angles are greater or less than a right angle
- f. Can recognise angles as a property of a shape e.g right angles in a square
- g. Can solve problems and reason about shape

Year 4

- a. Can recognise and describe the properties of 2D and 3D shapes using appropriate vocabulary (including in different orientations)
- b. Can compare and sort 2D and 3D shapes according to their geometric properties
- c. Can identify horizontal lines of symmetry in 2D shapes
- d. Can identify right angles
- e. Can identify whether angles are greater or less than a right angle
- f. Can recognise angles as a property of a shape e.g right angles in a square
- g. Can solve problems and reason about shape

Year 5

- a. Can identify 3D shapes from 2D representations
- b. Can estimate and compare acute, obtuse and reflex angles
- c. Can draw angles
- d. Can identify angles at a point and one whole turn ( $360^\circ$ )
- e. Can identify angles at a point on a straight line and  $1/2$  a turn ( $180^\circ$ )
- f. Can use properties of rectangles, including diagonals, to deduce related facts and find missing lengths and angles
- g. Can distinguish between regular and irregular polygons based on reasoning round equal sides and angles
- h. Can solve problems involving angles

Year 6

- a. Can name 2D and 3D shapes and describe their properties
- b. Can compare and classify shapes according to their properties
- c. Draw given angles and measure them in degrees
- d. Can recognise nets of familiar 3D shapes
- e. Can find missing angles in any triangles and quadrilaterals
- f. Can recognise angles where they meet at a point or on a straight line
- g. Can recognise angles which are vertically opposite and find missing angles
- h. Can identify and name the parts of a circle and know that the diameter is twice the radius



# Maths Position and Direction Progression Pathway Y1-Y6

Year 1

a. Can describe position, direction and movement, including whole, half, quarter and three-quarter turns

Year 2

a. Can describe position, direction and movement in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)

Year 3

Year 4

Year 5

a. Can identify and represent the position of a shape following reflection, in lines parallel to the axes  
b. Can identify and represent the position of a shape following translation  
c. Can solve problems involving position of shapes

a. Can describe positions on a 2D grid as coordinates in the first quadrant  
b. Can describe movements between positions as translations of a given unit to the left/right and up/down  
c. Can plot specified points and draw sides to complete a given polygon

Year 6

a. Can reflect simple shapes in a mirror line including the axes  
b. Can draw and translate simple shapes including on the coordinate plane  
c. Can use and interpret coordinates in all 4 quadrants



# Maths Statistics Progression Pathway Y1-Y6

Year 2

- a. Can interpret pictograms where one symbol represents one or more than one (1s, 2s, 5s, 10s)
- b. Can interpret a block diagram where the scale goes up in ones, fives or tens
- c. Can interpret tally charts
- d. Can interpret tables
- e. Can solve one step problems such as adding amounts e.g what is the total sum of money collected across a week?
- f. Can answer questions about totalling data e.g. How many people were asked altogether?
- g. Can answer questions about comparing data e.g. How many more people liked ...than ...?

Year 3

- a. Can interpret pictograms where one symbol represents more than one
- b. Can interpret bar charts where the scale goes up in twos or fives or tens
- c. Can understand how to present data in a simple pictogram, bar chart or table in an appropriate context
- d. Can respond to questions such as 'How many more?' and 'How many fewer?'
- e. Can solve one step problems such as adding amounts e.g what is the total sum of money collected across a week?
- f. Can solve two step problems e.g how much more do the class need to collect to reach their total?

Year 4

- a. Can present discrete and continuous data using appropriate graphical methods including bar charts and time graphs
- b. Can interpret discrete and continuous data using appropriate graphical methods including bar charts and time graphs
- c. Can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
- d. Can solve problems involving statistics

Year 5

- a. Can solve comparison, sum and difference problems using information presented in a line graph
- b. Can complete, read and interpret information in tables, including timetables

Year 6

- a. Can read and interpret timetables and calendars
- b. Can construct and interpret line graphs
- c. Can construct and interpret pie charts
- d. Can calculate and interpret the mean of a data set

# Maths Algebra Progression Pathway Y1-Y6

Year 2

Year 3

Year 5

Year 4

Year 6

- a. Can understand simple expressions using words and symbols
- b. Can use symbols to represent an unknown number or a variable
- c. Can use simple formulae
- d. Can generate and describe linear number sequences



# Maths Ratio and Proportion Progression Pathway Y1-Y6

Year 2

Year 3

Year 5

Year 4

Year 6

- a. Can understand, use and apply simple ratio to a real problem
- b. Can use and apply scale in real contexts
- c. Can understand and use the concept of proportion

