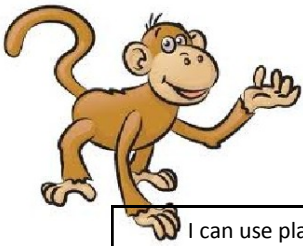


## Mathematics Programmes of Study

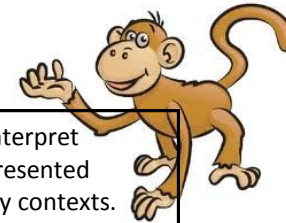
I can read and write numbers from 1 to 20 in digits and words.						I can tell the time to the hour and half past the hour.
I can find one more or one less of a given number.	I can solve one step problems using subtraction.	I can count in 2s, 5s and 10s.	I can solve simple half and quarter problems.	I know and use words relating to dates such as days, weeks & months.	I can describe position, directions and movements.	
I can count in multiples of 10.	I can solve one step problems using addition.	I can solve simple division problems.	I can find and name a quarter of a quantity.	I can recognise and know the value of coins and notes.	I can order and arrange combinations of objects and shapes in patterns.	
I can count in multiples of 5.	I can add and subtract 2 digit numbers to 20.	I can solve simple multiplication problems.	I can find and name a half of a shape.	I am beginning to measure and record time.	I can recognise/name 2-D and 3-D shapes in different sizes.	I can organise information in a simple way.
I can count in multiples of 2.	I can add and subtract one digit numbers to 20.	I can complete simple number patterns.	I can find and name a quarter of an object.	I am beginning to measure and record capacity and volume.	I can recognise and name 3-D shapes from everyday objects.	I can read information from a simple table.
I can count in multiples of 1.	I can show and use subtraction facts within 20.	I can show multiplication using arrays.	I can find and name a half of a quantity.	I am beginning to measure and record mass /weight.	I can recognise and name 2-D shapes from everyday objects.	I can read simple information from a block diagram.
I can count, read and write numbers to 100.	I can show and use Number bonds to 20.	I can share and group small amounts.	I can find and name a half of a shape.	I am beginning to measure and record lengths and heights.	I can recognise and name 3-D shapes.	I can read simple information from a tally chart.
I can count to and across 100, forwards and backwards.	I can read, write and understand calculations with +, - and = signs.	I can double single digit numbers.	I can find and name a half of an object.	I can compare, describe and solve problems involving measures.	I can recognise and name 2-D shapes.	I can read simple information from a pictogram.
<b>Number, place value &amp; rounding</b>	<b>Addition and Subtraction</b>	<b>Multiplication and Division</b>	<b>Fractions</b>	<b>Measures</b>	<b>Geometry</b>	<b>Data</b>



# 2

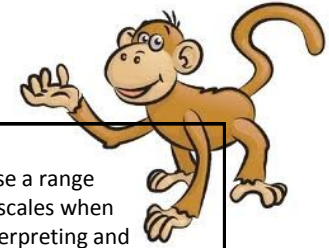
## Mathematics Programmes of Study

I can use place value and number facts to solve problems.	I can recognise and use inverse relationships between + and -.	I can solve 1 step problems involving multiplication and division.		I can tell and write the time to the nearest 5 minutes.		I can organise information using 'many-to-one' in pictograms using simple ratios (2,5 and 10).
I can read and write numbers to at least 100 in numerals and words.	I can show that addition can be done in any order and subtraction can't.	I know that of 1 number by an other can not be done in any order.	I can solve simple problems involving fractions.	I can compare and sequence intervals of time.	I can use mathematical vocabulary to describe position, direction and movement.	I can ask and answer questions when comparing categorical data.
I can use the <, > and = signs.	I can add and subtract 2 digit numbers and 10s and 2, 2 digit numbers.	I can show that X of 2 numbers can be done in any order.	I can count in fractions up to 10 starting from any number.	I can solve simple problems in a practical context for money.	I can order and arrange combinations of objects in patterns.	I can ask and answer questions about totalling.
I can compare and order numbers from 0 up to 100.	I can add and subtract a 2 digit number and ones and tens.	I can recognise and use inverse relationships between X and division.	I can write simple fractions and recognise equivalence.	I can recognise and use symbols for pounds and pence.	I can compare and sort common 2-D and 3-D shapes .	I can ask and answer simple questions by sorting categories by quantity.
I can identify, represent and estimate numbers.	I can recall and use + and - facts to 20 and use number facts to 100.	I can calculate mathematical statements for division.	I can recognise, find, name and write fractions of a quantity.	I can read relevant scales to the nearest numbered unit.	I can identify 2-D shapes on the surface of 3-D shape.	I can interpret and construct simple tables.
I know the place value of each digit in a 2 digit number.	I can apply written strategies to problems.	I can calculate mathematical statements for X.	I can find, name and write fractions of a set of objects.	I can compare and order length, mass, volume/capacity.	I can identify and describe the properties of 3-D shapes.	I can interpret and construct simple block diagrams.
I can count forwards and backwards in tens from any number,	I can apply mental strategies to problems.	I can recognise odd and even numbers.	I can recognise, find, name and write fractions of a shape.	I can use different equipment to measure accurately.	I can identify lines of symmetry in 2-D shapes.	I can interpret and construct simple tally charts.
I can count in steps of 2,3 and 5 from 0.	I can solve simple one step problems with addition and subtraction.	I can recall and use X and ÷ facts for the 2, 5 and 10 X tables.	I can recognise, find, name and write fractions of a length.	I use the correct standard units to estimate and measure.	I can identify and describe the properties of 2-D shapes.	I can interpret and construct simple pictograms.
<b>Number, place value &amp; rounding</b>	<b>Addition and Subtraction</b>	<b>Multiplication and Division</b>	<b>Fractions</b>	<b>Measures</b>	<b>Geometry</b>	<b>Data</b>



## Mathematics Programmes of Study

I can solve number problems and practical problems.	I can solve missing number problems for + and –.	I can solve missing number problems using multiplication and division.	I can solve problems that involve fractions.	I can compare durations of events.	I can identify horizontal, vertical, perpendicular and parallel lines in relation to other lines.	I can interpret data presented in many contexts.
I can read and write numbers to at least 1000 in numerals and words.	I can solve word problems for + and –.	I can solve problems using multiplication and division.	I can compare and order fractions with the same denominator.	I know the number of seconds in a minute and the number of days in each month, year and leap year.	I can identify whether angles are greater than or less than a right angle.	I can use simple scales (e.g. 2,5,10 units per cm) in pictograms and bar charts.
I can identify, represent and estimate numbers in different contexts.	I can estimate the answer to a calculation and use inverse operations to check answers.	I can use efficient written methods to X a 2 digit and 1 digit number.	I can + and - fractions with the same denominator within 1 whole.	I can recognise and write the Roman numerals from I to XII.	I know that 2 right angles make a half turn, 3 make 3/4 of a turn and 4 make a complete turn.	I can solve two step problems such as 'How many more? How many fewer?'
I can compare and order number up to 1000.	I can - numbers with up to 3 digits using an efficient written method.	I can use mental strategies to multiply a 2 digit number by a 1 digit.	I can recognise and show, using diagrams, equivalent fractions.	I can tell and write the time from an analogue clock and 24 hour clock.	I can identify right angles.	I can solve one step problems such as 'How many more? How many fewer?'
I can recognise the place value of each digit in a 3 digit number.	I can + numbers with up to 3 digits using an efficient written method.	I can calculate mathematical statements for X and ÷ facts that I know.	I can recognise and use fractions as numbers. $\frac{1}{4} + \frac{3}{4} = 1$	I can + and – amounts of money to give change using £ and p.	I can recognise angles as a property of shapes and associate angles with turning.	I can interpret and present data using tables.
I can find 10 or 100 more or less than a given number.	I can + and – numbers mentally - '3 digit number and hundreds'.	I can recall and use X and ÷ facts for the 8 times tables.	I can recognise, find and write fractions for a set of objects.	I can measure the perimeter of simple 2-D shapes.	I can measure, compare, add and subtract volume/capacity (l/ml).	I can interpret and present data using pictograms.
I can count from 0 in multiples of 50 and 100.	I can add and subtract numbers mentally - '3 digit number and tens'.	I can recall and use X and ÷ facts for the 4 times tables.	I know that tenths arise from dividing an object into 10 equal parts.	I can measure, compare, add and subtract mass (kg/g).	I can recognise and describe 3-D shapes in different orientations.	I can interpret and present data using bar charts.
I can count from 0 in multiples of 4 and 8.	I can add and subtract numbers mentally - '3 digit number and ones'.	I can recall and use X and ÷ facts for the 3 times tables.	I can count up and down in tenths.	I can measure, compare, add and subtract lengths (m/cm/mm).	I can make 3-D shapes using modelling materials.	
Number, place value & rounding	Addition and Subtraction	Multiplication and Division	Fractions	Measures	Geometry	Data



## Mathematics Programmes of Study

I can read Roman numerals to 100 (I to C) and understand how the numeral system changed.	I can solve mental calculations with increasingly large numbers.	I can solve problems involving multiplying and dividing.	I can solve simple measure and money problems involving fractions and decimals to two decimal places.	I can solve problems involving converting from hours to minutes; minutes to seconds; years to months and weeks to days.	I can plot specified points and draw sides to complete a given polygon.	I use a range of scales when interpreting and presenting data.
I can solve number and practical problems using place value.	I can solve two-step subtraction problems deciding which operations and methods to use and why.	I can multiply three-digit numbers by a one-digit number.	I can compare numbers with the same number of decimal places.	I can read, write and convert time between analogue and digital 12 and 24-hour clocks.	I can translate shapes.	I can solve 'difference' problems using information presented in bar charts, pictograms, tables and simple line graphs.
I can round any number to the nearest 10, 100 or 1000.	I can solve two-step addition problems deciding which operations and methods to use and why.	I can multiply two-digit numbers by a one-digit number.	I can round decimals with 1 decimal place to the nearest whole number.	I can estimate, compare and calculate different measures, including money in pounds and pence.	I can describe position on a 2-D grid as co-ordinates in the first quadrant.	I can solve 'sum' problems using information presented in bar charts, pictograms, tables and simple line graphs.
I can identify, represent and estimate numbers.	I can use inverses to check answers to calculations.	I can recognise and use factor pairs in mental calculations.	I can find the effect of $\div$ a number by 10 and 100 and identify the value of the digits in the answer.	I can identify lines of symmetry in 2-D shapes presented in different orientations.	I can complete a simple symmetric figure with respect to a specific line of symmetry.	I can solve 'comparison' problems using information presented in bar charts, pictograms, tables and simple line graphs.
I can order and compare numbers beyond 1000.	I can estimate to check answers to calculations.	I can multiply together three numbers.	I can recognise and write decimal equivalents to $1/4$ , $1/2$ , $3/4$ .	I can find the area of rectilinear shapes by counting.	I can identify acute and obtuse angles.	I can interpret and present data using line graphs.
I can recognise the place value of each digit in a 4-digit number.	I can subtract numbers with up to 4 digits using efficient written methods.	I can use place value, known and derived facts to divide mentally.	I can recognise and write decimal equivalents of any number of 10ths or 100ths.	I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.	I can compare and order angles up to two right angles by size.	I can interpret and present data using bar charts.
I can count backwards through zero to include negative numbers.	I can use place value, known and derived facts to multiply mentally.	I can use place value, known and derived facts to divide mentally.	I can add and subtract fractions with the same denominator.	I can convert between different units of measure (e.g. Kilometre to metre; hour to minute).	I can identify acute and obtuse angles.	I can interpret and present data using bar charts.
I can find 100 more or less than a given number.	I can add numbers with up to 4 digits using efficient written methods.	I can recall $\times$ and $\div$ facts for multiplication tables up to $12 \times 12$ .	I can identify, name and write equivalent fractions of a given fraction.	I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	I can identify acute and obtuse angles.	I can interpret and present data using bar charts.
I can count in multiples of 6, 7, 9, 25 and 1000.			I can count up and down in 100ths and recognise that 100ths arise when dividing an object by 100 and dividing 10ths by 10.			
<b>Number, place value &amp; rounding</b>	<b>Addition and Subtraction</b>	<b>Multiplication and Division</b>	<b>Fractions and Decimals</b>	<b>Measures</b>	<b>Geometry</b>	<b>Data</b>



## Mathematics Programmes of Study

I can recognise years written in Roman numerals.	I can solve multi-step subtraction problems in contexts, deciding which operations and methods to use and why.	I can solve problems including scaling by simple fractions and simple rates.	I can write percentages as a fraction.	I can solve problems involving addition and subtraction of units of measures using decimal notation.	I can distinguish between regular and irregular polygons.	
I can read Roman numerals to 1000 (M).		I can recognise an use square numbers and cube numbers.	I can recognise the % symbol and understand what it means.		I can state and use the properties of a rectangle to deduce related facts.	
I can solve number problems and practical problems.	I can solve multi-step addition problems in contexts, deciding which operations and methods to use and why.	I can X and $\div$ whole numbers and those involving decimals by 10, 100 & 1000.	I can read, write, order and compare numbers with up to 3 decimal places.	I can solve problems involving converting between units of time.	I can draw shapes using given dimensions and angles.	I can present information using ICT.
I can round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100, 000.	I can use rounding to check answers to calculations.	I can divide numbers up to 4 digits by a 1 digit number using an efficient written method.	I can round decimals with 2 decimal places to the nearest whole number and to one decimal place.	I can recognise and estimate volume and capacity.	I can compare different angles.	I can read and interpret information in tables including timetables.
I can use negative numbers in context and can count forwards and backwards with positive and negative numbers through 0.	I can subtract mentally using increasingly large numbers.	I can X numbers up to 4 digits by a one or 2 digit number.	I can recognise and use 1000ths and relate them to 10ths, 100ths and decimal equivalents.	I can estimate the area of irregular shapes.	I can identify reflex angles.	I can complete information in tables including timetables.
I can count forwards or backwards in steps of powers of 10 for any given Number up to 1,000,000.	I can add mentally using increasingly large numbers.	I can establish whether a number up to 100 is prime and recall prime numbers up to 19.	I can read and write decimal numbers as fractions.	I can calculate and compare the area of squares and rectangles.	I can identify angles at a point and one whole turn.	I can solve 'difference' problems using information presented in line graphs.
I know what each digit represents in numbers to 1,000,000.	I can subtract numbers with more than 4 digits using efficient written methods.	I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.	I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.	I can identify angles at a point on a straight line and $1/2$ a turn.	I can solve 'sum' problems using information presented in line graphs.
I can read, write, order and compare numbers to at least 1,000,000.	I can add numbers with more than 4 digits using efficient written methods.	I can solve problems using multiplication and division.	I can + and - fractions with the same denominator and related fractions.	I understand and use basic equivalences between metric and common imperial units.	I can draw a given angle, writing its size in degrees.	I can solve 'comparison' problems using information presented in line graphs.
		I can identify multiples and factors, including finding all factor pairs.	I can recognise mixed numbers and improper fractions and convert from one form to another.	I can convert between different units of measure (e.g. Kilometre to metre; metre and centimetre; centimetre and millimetre; kilogram and gram; litre and millilitre).	I know angles are measured in degrees and can estimate and measure them.	
			I can compare and order fractions whose denominators are all multiples of the same number.		I can identify 3-D shapes, including cubes and cuboids, from 2-D presentations.	
<b>Number, place value &amp; rounding</b>	<b>Addition and Subtraction</b>	<b>Multiplication and Division</b>	<b>Fractions and Decimals</b>	<b>Measures</b>	<b>Geometry</b>	<b>Data</b>



# Mathematics Programmes of Study

# 6



I can find pairs of numbers that satisfy numbers sentences involving two unknowns.	I use estimation to check answers to calculations.	I can solve ratio and proportion problems involving unequal sharing and grouping.	I can recall and use equivalences between simple fractions, decimals and percentages.	I can calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed and cubic metres.	I can draw and translate simple shapes and reflect them in the axes.
I can generate and describe linear number sequences.	I can solve problems involving any operation.	I can solve ratio and proportion problems involving the relative sizes of two quantities, including similarity.	I can solve problems involving the calculation of percentages of whole numbers or measures such as 15% of 360.	I recognise when it is necessary to use the formulae for area and volume of shapes.	I can describe positions on the full co-ordinate grid (all four quadrants).
I can use simple formulae expressed in words.	I can solve addition and subtraction multi-step problems.	I can divide proper fractions by whole numbers (e.g. $1/3 \div 2 = 1/6$ ).	I can solve problems which require answers to be rounded to specified degrees of accuracy.	I can calculate the area of parallelograms and triangles.	I can find unknown angles where they meet at a point, are on a straight line, and are vertically opposite.
I can express missing number problems algebraically.	I use knowledge of the order of operations to carry out calculations involving the four operations.	I can multiply simple pairs of proper fractions, writing the answer in its simplest form (e.g. $1/4 \times 1/2 = 1/8$ ).	I can use written division methods in cases where the answer has up to 2 decimal places.	I can recognise that shapes with the same areas can have different perimeters and vice versa.	I can illustrate and parts of circles, including radius, diameter and circumference.
I can recognise years written in Roman numerals.	I can identify common factors, common multiples and prime numbers.	I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.	I can multiply one-digit numbers with up to 2 decimal places by whole numbers.	I can convert between miles and kilometres.	I can calculate and interpret the mean as an average.
I can read Roman numerals to 1000 (M).	I can calculate mentally, including with mixed operations and large numbers.	I can associate a fraction with division to calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. $3/8$ ).	I can multiply and divide numbers by 10, 100 and 1000 where the answers are up to 3 decimal places.	I use, read, write and convert between standard units of measure.	I can construct line graphs.
I can solve number problems and practical problems.	I can interpret remainders as whole number remainders, fractions, or by rounding.	I can compare and order fractions, including fractions $> 1$ .	I can identify the value of each digit to three decimal places.	I can solve problems involving the calculation and conversion of units of measure, using decimal notation to 3 decimal places where appropriate.	I can construct pie charts.
I can calculate intervals across '0' when using negative numbers.	I can divide numbers up to 4 digits by a 2-digit whole number using an efficient written method.	I can use common factors to simplify fractions and use common multiples to express fractions in the same denomination.			I can interpret pie charts.
I can use negative numbers in context.	I can multiply multi-digit numbers up to 4 digits by a 2 digit whole number using a written method.				
I can round any whole number.					
I can read, write, order and compare numbers up to 10,000,000.					

Number and Algebra	+, -, x and ÷	Fractions Ratio and Proportion	Fractions, Decimals and Percentages	Measures	Geometry	Data
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