

## MATHEMATICS ASSESSMENT RECORD - YEAR 1

<b>Number and Place Value</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number															
Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s and 10s															
Given a number, identify 1 more and 1 less															
Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least															
Read and write numbers from 1 to 20 in numerals and word															
<b>Addition and Subtraction</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs															
Represent and use number bonds and related subtraction facts within 20															
Add and subtract one-digit and two-digit numbers to 20, including 0															
Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$															
<b>Multiplication and Division</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher															
<b>Fractions</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity															
Recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity															
<b>Measurement</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Compare, describe and solve practical problems for: <ul style="list-style-type: none"> <li>• lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]</li> <li>• mass/weight [for example, heavy/light, heavier than, lighter than]</li> <li>• capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]</li> <li>• time [for example, quicker, slower, earlier, later]</li> </ul>															
Measure and begin to record the following: <ul style="list-style-type: none"> <li>• lengths and heights</li> <li>• mass/weight</li> <li>• capacity and volume</li> <li>• time (hours, minutes, seconds)</li> <li>• recognise and know the value of different denominations of coins and notes</li> <li>• sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]</li> </ul>															
Recognise and use language relating to dates, including days of the week, weeks, months and years															
Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times															
<b>Properties of Shape</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Recognise and name common 2-D and 3-D shapes, including: <ul style="list-style-type: none"> <li>• 2-D shapes [for example, rectangles (including squares), circles and triangles]</li> <li>• 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]</li> </ul>															
<b>Position &amp; Direction</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Describe position, direction and movement, including whole, half, quarter and three-quarter turns															

## MATHEMATICS ASSESSMENT RECORD - YEAR 2

<b>Number and Place Value</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward																
Recognise the place value of each digit in a two-digit number (10s, 1s)																
Identify, represent and estimate numbers using different representations, including the number line																
Compare and order numbers from 0 up to 100; use <, > and = signs																
Read and write numbers to at least 100 in numerals and in words																
Use place value and number facts to solve problems																
<b>Addition and Subtraction</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Solve problems with addition and subtraction: <ul style="list-style-type: none"> <li>using concrete objects and pictorial representations, including those involving numbers, quantities and measures</li> <li>applying their increasing knowledge of mental and written methods</li> </ul>																
Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100																
Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> <li>a two-digit number and 1s</li> <li>a two-digit number and 10s</li> <li>2 two-digit numbers</li> <li>adding 3 one-digit numbers</li> </ul>																
Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot																
Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems																
<b>Multiplication and Division</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers																
Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division (÷) and equals (=) signs																
Show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot																
Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts																
<b>Fractions</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity																
Write simple fractions, for example 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2																
<b>Measurement</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels																
Compare and order lengths, mass, volume/capacity and record the results using >, < and =																
Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value																
Find different combinations of coins that equal the same amounts of money																
Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change																
Compare and sequence intervals of time																
Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times																
Know the number of minutes in an hour and the number of hours in a day																

<b>Properties of Shape</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line															
Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces															
Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]															
Compare and sort common 2-D and 3-D shapes and everyday objects															
<b>Position &amp; Direction</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Order and arrange combinations of mathematical objects in patterns and sequences															
Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)															
<b>Statistics</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Interpret and construct simple pictograms, tally charts, block diagrams and tables															
Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity															
Ask-and-answer questions about totalling and comparing categorical data															

## MATHEMATICS ASSESSMENT RECORD - YEAR 3

<b>Number and Place Value</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number															
Recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)															
Compare and order numbers up to 1,000															
Identify, represent and estimate numbers using different representations															
Read and write numbers up to 1,000 in numerals and in words															
Solve number problems and practical problems involving these ideas															
<b>Addition and Subtraction</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Add and subtract numbers mentally, including: <ul style="list-style-type: none"> <li>• a three-digit number and 1s</li> <li>• a three-digit number and 10s</li> <li>• a three-digit number and 100s</li> </ul>															
Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction															
Estimate the answer to a calculation and use inverse operations to check answers															
Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction															
<b>Multiplication and Division</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables															
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods															
Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects															
<b>Fractions</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10															
Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators															
Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators															
Recognise and show, using diagrams, equivalent fractions with small denominators															
Add and subtract fractions with the same denominator within one whole [for example, $5/7 + 1/7 = 6/7$ ]															
Compare and order unit fractions, and fractions with the same denominators															
Solve problems that involve all of the above															
<b>Measurement</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)															
Add and subtract amounts of money to give change, using both £ and p in practical contexts															
Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks															
Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight															
Know the number of seconds in a minute and the number of days in each month, year and leap year															
Compare durations of events [for example, to calculate the time taken by particular events or tasks]															
Measure the perimeter of simple 2-D shapes															

<b>Properties of Shape</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them															
Recognise angles as a property of shape or a description of a turn															
Identify horizontal and vertical lines and pairs of perpendicular and parallel lines															
<b>Statistics</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs															
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs															

## MATHEMATICS ASSESSMENT RECORD - YEAR 4

<b>Number and Place Value</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	
Count in multiples of 6, 7, 9, 25 and 1,000																	
Find 1,000 more or less than a given number																	
Count backwards through 0 to include negative numbers																	
Recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)																	
Order and compare numbers beyond 1,000																	
Identify, represent and estimate numbers using different representations																	
Round any number to the nearest 10, 100 or 1,000																	
Solve number and practical problems that involve all of the above and with increasingly large positive number																	
Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value																	
<b>Addition and Subtraction</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	
Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate																	
Estimate and use inverse operations to check answers to a calculation																	
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why																	
<b>Multiplication and Division</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	
recall multiplication and division facts for multiplication tables up to $12 \times 12$																	
use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers																	
recognise and use factor pairs and commutativity in mental calculations																	
multiply two-digit and three-digit numbers by a one-digit number using formal written layout																	
solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects																	
<b>Fractions</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	
Recognise and show, using diagrams, families of common equivalent fractions																	
Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10																	
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number																	
Add and subtract fractions with the same denominator																	
Recognise and write decimal equivalents of any number of tenths or hundreds																	
Recognise and write decimal equivalents to $1/4$ , $1/2$ , $3/4$																	
Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths																	
Round decimals with 1 decimal place to the nearest whole number																	
Compare numbers with the same number of decimal places up to 2 decimal places																	
Solve simple measure and money problems involving fractions and decimals to 2 decimal places																	
<b>Measurement</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	
Convert between different units of measure [for example, kilometre to metre; hour to minute]																	
Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres																	
Find the area of rectilinear shapes by counting squares																	
Estimate, compare and calculate different measures, including money in pounds and pence																	

Read, write and convert time between analogue and digital 12- and 24-hour clocks															
Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days															
<b>Properties of Shape</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes															
Identify acute and obtuse angles and compare and order angles up to 2 right angles by size															
Identify lines of symmetry in 2-D shapes presented in different orientations															
Complete a simple symmetric figure with respect to a specific line of symmetry															
<b>Position and Direction</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Describe positions on a 2-D grid as coordinates in the first quadrant															
Describe movements between positions as translations of a given unit to the left/right and up/down															
Plot specified points and draw sides to complete a given polygon															
<b>Statistics</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs															
Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs															

**MATHEMATICS ASSESSMENT RECORD - YEAR 5**

<b>Number and Place Value</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit																
Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000																
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0																
Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000																
Solve number problems and practical problems that involve all of the above																
Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals																
<b>Addition and Subtraction</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)																
Add and subtract numbers mentally with increasingly large numbers																
Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy																
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why																
<b>Multiplication and Division</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers																
Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers																
Establish whether a number up to 100 is prime and recall prime numbers up to 19																
Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers																
Multiply and divide numbers mentally, drawing upon known facts																
Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context																
Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000																
Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)																
Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes																
Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign																
Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates																
<b>Fractions</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Compare and order fractions whose denominators are all multiples of the same number																
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths																
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 1/5]																
Add and subtract fractions with the same denominator, and denominators that are multiples of the same number																
Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams																
Read and write decimal numbers as fractions [for example, 0.71 = 71/100]																
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents																
Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place																
Read, write, order and compare numbers with up to 3 decimal places																
Solve problems involving number up to 3 decimal places																



Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction															
Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , $\frac{1}{5}$ , $\frac{2}{5}$ , $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25															
<b>Measurement</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]															
Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints															
Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres															
Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ), and estimate the area of irregular shapes															
Estimate volume [for example, using 1 cm <sup>3</sup> blocks to build cuboids (including cubes)] and capacity [for example, using water]															
Solve problems involving converting between units of time															
Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling															
<b>Properties of Shape</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Identify 3-D shapes, including cubes and other cuboids, from 2-D representations															
Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles															
Draw given angles, and measure them in degrees (°)															
Identify:															
• angles at a point and 1 whole turn (total 360°)															
• angles at a point on a straight line and half a turn (total 180°)															
• other multiples of 90°															
• use the properties of rectangles to deduce related facts and find missing lengths and angles															
• distinguish between regular and irregular polygons based on reasoning about equal sides and angles															
<b>Position and Direction</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
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															
<b>Statistics</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Solve comparison, sum and difference problems using information presented in a line graph															
Complete, read and interpret information in tables, including timetables															

**MATHEMATICS ASSESSMENT RECORD - YEAR 6**

<b>Number and Place Value</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit																
Round any whole number to a required degree of accuracy																
Use negative numbers in context, and calculate intervals across 0																
Solve number and practical problems that involve all of the above																
<b>Addition, Subtraction, Multiplication and Division</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication																
Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context																
Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context																
Perform mental calculations, including with mixed operations and large numbers																
Identify common factors, common multiples and prime numbers																
Use their knowledge of the order of operations to carry out calculations involving the 4 operations																
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why																
Solve problems involving addition, subtraction, multiplication and division																
Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy																
<b>Fractions (including decimals and percentages)</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Use common factors to simplify fractions; use common multiples to express fractions in the same denomination																
Compare and order fractions, including fractions >1																
Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions																
Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1/4 \times 1/2 = 1/8$ ]																
Divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$ ]																
Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $3/8$ ]																
Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places																
Multiply one-digit numbers with up to 2 decimal places by whole numbers																
Use written division methods in cases where the answer has up to 2 decimal places																
<b>Ratio and Proportion</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts																
Solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison																
Solve problems involving similar shapes where the scale factor is known or can be found																
Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples																
<b>Algebra</b>	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Use simple formulae																
Generate and describe linear number sequences																
Express missing number problems algebraically																
Find pairs of numbers that satisfy an equation with 2 unknowns																
Enumerate possibilities of combinations of 2 variables																

Measurement	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate																
Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places																
Convert between miles and kilometres																
Recognise that shapes with the same areas can have different perimeters and vice versa																
Recognise when it is possible to use formulae for area and volume of shapes																
Calculate the area of parallelograms and triangles																
Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other units [for example, mm <sup>3</sup> and km <sup>3</sup> ]																
Properties of Shape	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Draw 2-D shapes using given dimensions and angles																
Recognise, describe and build simple 3-D shapes, including making nets																
Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons																
Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius																
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles																
Position and Direction	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Describe positions on the full coordinate grid (all 4 quadrants)																
Draw and translate simple shapes on the coordinate plane, and reflect them in the axes																
Statistics	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name	Name
Interpret and construct pie charts and line graphs and use these to solve problems																
Calculate and interpret the mean as an average																