

	Working Towards				
е	I can read, write, order and compare numbers up to 10 000 000				
and Pla lue	I can round any whole number to the nearest 10, 100, 1000, 10 000, 100 000				
imber a Val	I can use negative numbers in context, and begin to calculate intervals across zero				
ß	I can solve number and practical problems that involve all of the above				
	I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication with support				
cation and Division	I can divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division and interpret remainders with support				
	I can divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate and interpret remainders with support				
ltipli	I can perform mental calculations that include mixed operations				
on, Mu	I can identify common factors and some common multiples and prime numbers				
btracti	I can begin to use the order of operations to carry out calculations involving the four operations				
ion, Su	I can solve addition and subtraction multi-step problems in contexts, including using formal written layout				
Addit	I can solve simple problems involving addition, subtraction, multiplication and division				
	I am beginning to use estimation to check my answers				



	I can simplify fractions using common factors with support				
	I can compare and order fractions, including fractions > 1, using the concept of equivalent fractions				
ntages	I can add and subtract fractions with different denominators				
d Perce	I can multiply proper fractions by whole numbers and begin to multiply pairs of proper fractions				
imals ar	I am beginning to divide proper fractions by whole numbers using concrete and pictorial representation				
ding Dec	I can read and write decimal numbers as fractions and vice versa				
ns Inclue	I can read, write, order and identify the value of each digit in numbers given to three decimal places				
Fractio	I can use written division methods in cases where the answer has one decimal place				
	I can begin to solve problems which require answers to be rounded to specified degrees of accuracy				
	I can recall and use simple equivalences between simple fractions, decimals and percentages (e.g. ½, ¼, 1/5, 1/10, 1/100)				



tion	I can begin to solve problems involving two quantities or values by using multiplication and division facts				
Proporti	I can solve problems involving the calculation of simple percentages [multiples of 5 and 10] and begin to use percentages for comparison				
io and F	I can solve problems involving similar shapes where the scale factor is known				
Rai	I can begin to solve problems involving unequal sharing and grouping				



	I can use some familiar formulae				
	I can generate simple number sequences if given a rule				
Algebra	I can begin to express missing number problems algebraically				
•	I can find a pair of numbers that satisfy an equation with two unknowns				
	I can enumerate at least one combination that meets given criteria				
	I can solve simple problems involving the calculation and conversion of units of measure, using decimal notation up to two decimal places where appropriate				
	I can use, read, write and convert between standard units, converting measurements of length, mass and time with some support				
nent	I can begin to convert between miles and kilometres				
easuren	I am beginning to recognise that shapes with the same areas can have different perimeters and vice versa				
Σ	I can use formulae for finding the area of squares and rectangles				
	I can calculate the area of triangles				
	I can calculate the volume of a cube or cuboid, using concrete or pictorial representations if needed				



	I can draw simple 2-D shapes using given dimensions and angles				
Jape	I can recognise and describe 3D shapes, including making some links to their nets				
erties of Sl	I can compare and classify geometric shapes based on my properties and sizes and find unknown angles in triangles and quadrilaterals				
Prop	I can begin to name parts of circles, including radius, diameter and circumference				
	I can recognise angles that are vertically opposite and find missing angles				
n and tion	I can begin to describe positions on the full coordinate grid (all four quadrants)				
Positio	I can draw and translate simple shapes on the coordinate plane and begin to reflect them				
istics	I can interpret and construct simple pie charts and line graphs and begin to use these to solve problems with support				
Stat	I can calculate the mean as an average				



	Expected				
Ce	I can read, write, order and compare numbers up to 10 000 000 and determine the value of each digit				
and Pla lue	I can round any whole number to a required degree of accuracy				
imber a Val	l can use negative numbers in context, and calculate intervals across zero				
NU	I can solve number and practical problems that involve all of the above				
	I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication				
Division	I can 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				
ation and D	I can 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				
ultiplic	I can perform mental calculations, including with mixed operations and large numbers				
ion, M	I can identify common factors, common multiples and prime numbers				
ubtract	I can use my knowledge of the order of operations to carry out calculations involving the four operations				
tion, Sı	I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why				
Addi	l can solve problems involving addition, subtraction, multiplication and division				
	I can use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy				



	I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination				
	I can compare and order fractions, including fractions > 1				
ges	I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions				
ercenta	I can multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1/4 \times 1/2 = 1/8$]				
ls and P	I can divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]				
ng Decima	I can associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8]				
ctions Includi	I can identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places multiply one-digit numbers with up to two decimal places by whole numbers				
Fra	I can use written division methods in cases where the answer has up to two decimal places				
	I can solve problems which require answers to be rounded to specified degrees of accuracy				
	I can recall and use equivalences between simple fractions, decimals and percentages, including in different contexts				



uo	I can solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts				
d Proporti	I can solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison				
tatio and	I can solve problems involving similar shapes where the scale factor is known or can be found				
-	I can solve problems involving unequal sharing and grouping using knowledge of fractions and multiples				



	I can use simple formulae				
	I can generate and describe linear number sequences				
Algebra	I can express missing number problems algebraically				
	I can find pairs of numbers that satisfy an equation with two unknowns				
	I can enumerate possibilities of combinations of two variables				
	I can solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate				
	I can 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 three decimal places				
ent	I can convert between miles and kilometres				
Measureme	I can recognise that shapes with the same areas can have different perimeters and vice versa				
	I can recognise when it is possible to use formulae for area and volume of shapes				
	I can calculate the area of parallelograms and triangles				
	I can calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units [for example, mm3 and km3]				



	I can draw 2-D shapes using given dimensions and angles				
аре	I can recognise, describe and build simple 3-D shapes, including making nets				
erties of SI	l can compare and classify geometric shapes based on my properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons				
Prop	I can illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius				
	I can recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles				
ה and cion	I can describe positions on the full coordinate grid (all four quadrants)				
Positio Direct	I can draw and translate simple shapes on the coordinate plane, and reflect them in the axes				
istics	I can interpret and construct pie charts and line graphs and use these to solve problems				
Stat	I can calculate and interpret the mean as an average				



	Greater Depth				
e	I can read, write, order and compare numbers beyond 10 000 000 and determine the value of each digit				
and Pla ue	I can round a decimal number to the nearest whole number				
imber a Val	I can use negative numbers in familiar and unfamiliar contexts, including calculating intervals across zero				
NU	I can solve number and practical problems that involve all of the above, justifying my choices				
pue	I can choose the most efficient method for calculation and justify my choice				
plication ar	I can perform mental calculations, including with mixed operations and large numbers, justifying my choices and choosing the most efficient method				
ı, Multi ion	I can fluently identify common factors, common multiples and prime numbers using known strategies				
raction Divis	I can use my knowledge of the order of operations to carry out increasingly complex calculations involving the four operations				
tion, Subt	I can solve multi-step problems involving the four operations in context, deciding which operations and methods to use and justifying why				
Addi	I can use estimation to check answers to calculations automatically				



	I can use common factors to simplify fractions, justifying when fractions are in their simplest form				
	I can compare and order fractions, decimals and percentages				
ntages	I can solve problems involving the addition and subtraction of mixed fractions				
nd Perce	I can multiply pairs of proper fractions, writing the answer in its simplest form				
imals ar	I can divide proper fractions by another proper fraction, with some support				
ling Deci	I can associate a fraction with division and calculate decimal fraction equivalents				
ns Incluc	I can multiply or divide numbers by any power of 10				
Fractio	I can use written division methods in cases where the answer has up to three decimal places				
	I can solve increasingly complex problems which require answers to be rounded to specified degrees of accuracy				
	I can fluently recall and use equivalences between fractions, decimals and percentages, including in different contexts				

atio and Proportion	I can solve increasingly problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts				
	I can solve problems involving the calculation of percentages in a wide range of contexts				
	I can solve increasingly complex problems involving similar shapes where the scale factor is known or can be found				
Ä	I can solve increasingly complex problems involving unequal sharing and grouping using knowledge of fractions and multiples				



Algebra	I can use more complex formulae				
	I can generate and describe linear number sequences, justifying my choices				
	I can express increasingly complex missing number problems algebraically				
	I can find all possible values and combinations, explaining how I have found them				
Measurement	I can choose the most efficient method to solve problems involving the calculation and conversion of units of measure				
	I can fluently use, read, write and convert between standard units				
	I can use a range of imperial and metric conversions				
	I can justify why a shape with a given perimeter has the smallest area and vice versa				
	I can find the volume and area of compound shapes, justifying my decisions				
	I can solve problems involving finding missing lengths of triangles and parallelograms				
	I can calculate, estimate and compare volume of cubes and cuboids, using appropriate units and notation				



Properties of Shape	I can draw more complex 2-D shapes using given dimensions and angles				
	I can recognise, describe and build 3-D shapes, including making nets accurately				
	I can compare and classify geometric shapes based on my properties and sizes, justifying my decisions mathematically				
	I can use the language of circles accurately and begin to explore how to find the circumference of circles algebraically				
	I can find missing angles, justifying them with the appropriate mathematical vocabulary				
Position and Direction	I can accurately describe positions on the full coordinate grid (all four quadrants)				
	I can draw and translate complex shapes on the coordinate plane, and reflect them in the axes, being able to justify my positioning				
Statistics	I can interpret and construct pie charts and line graphs and use these to solve increasingly complex problems, comparing data in different formats accurately				
	I can calculate and interpret the mean as an average from a set of data, including in unfamiliar contexts				