Year 1 Maths Assessment

Number and Place Value

I can to and across 100 both forwards and backwards
I can count from any number my teacher gives me up to 100
I am able to read numbers from 1 to 100
I can write numbers from 1 to 100 (in number form)
I can identify one more and one less when given a number
I can read numbers from 1 to 20 in numerals
I can read numbers from one to twenty in words
I can write numbers from 1 to 20 in numerals
I can write numbers from one to twenty in words
I can use pictures or objects to represent numbers
I can use a number line to help me count
I understand: equal to
I understand ; more than
I understand : less than
I understand: fewer than
I can say what or who is 1st, 2nd, 3rd and 4th etc.
I can tell my teacher what an odd and even number is
I can say whether there are more or less of something

Addition and Subtraction

I can read, write and work out addition calculations involving + and = signs
I can read, write and work out subtraction calculations involving – and = signs
I can add 1 digit numbers up to 20
I can take away or subtract 1 digit numbers from 20
I can add 2 digit numbers to 20
I can take away or subtract 2 digit numbers from 20
I can add and subtract using zero
I can solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems, such as: 7 = ? – 9 or 16 + ? = 20
I can show and use number bonds to 10 to solve problems and calculations
I can show and use number bonds to 20 to solve problems and calculations

Multiplication and Division

I can count in 2's
I can count in 5's
I can count in 10's
I can solve simple multiplication problems using concrete objects, pictorial representations and arrays
I can solve simple division problems using concrete objects, pictorial representations and arrays
I can double and half single-digit numbers using concrete objects to support my understanding
I can group and share small amounts using

Measurement (weight, volume, capacity, money, date/time)

I can compare, describe and solve practical problems for:
Lengths and heights (e.g. long/short; longer/shorter; tall/short; double/half)
Mass and weight (e.g. heavy/light, heavier than; lighter than)
Capacity and volume (e.g. full/empty; more than; less than; half; half full; quarter)
Time (e.g. quicker; slower; earlier; later)
I can measure and begin to record the following:
Lengths and heights
Mass and weight
Capacity and volume
Time (hours; minutes and seconds)
I can recognise and know the value of different coins
I can recognise and know the value of different notes
I can sequence events in chronological order (e.g. before and after; next; first)
I can sequence days in chronological order (e.g. yesterday; today; tomorrow)
I know when it is morning, afternoon and evening
I can recognise and talk about days of the week
I can recognise and use date words like days, weeks, months and years
I can tell the time to the hour
I can tell the time to the half past the hour
I can draw hands on a clock face to show these times

Fractions

I can recognise/find/name a half or ½ as one of two equal parts of an object
I can recognise/find/name a half or ½ as one of two equal parts of a shape
I can recognise/find/name a half or ½ as one of two equal parts of quantity
I can recognise/find/name a quarter or ¼ as one of four equal parts of an object
I can recognise/find/name a quarter, or ¼ as one of four equal parts of a shape
I can recognise/find/name a quarter or ¼ as one of four equal parts of a quantity

Geometry

I can recognise and name common 2-D shapes (e.g. rectangles, squares, circles, triangles)
I can recognise and name common 3-D shapes (e.g. cuboids, cubes, pyramids, spheres)
I can describe position, direction and movement, including whole, half, quarter and three-quarter turn
I can make these different turns in both directions
I can position and describe left and right
I can position and describe up and down
I can position and describe top, middle and bottom
I can position and describe on top of, in front of, above, between and around
I can position and describe near, close and far
I can position and describe forwards and backwards
I can describe inside and outside

Year 2 Maths Assessment

Number and Place Value

I can count forwards and backwards in steps of 2 (from zero)
I can count forwards and backwards in steps of 3 (from zero)
I can count forwards and backwards in steps of 5 (from zero)
I can count forwards and backwards in steps of 10 (from any number)
I can recognise the place value of each digit in a two-digit number (tens and units)
I can identify, represent and estimate numbers using different representations e.g. number line
I can compare and order numbers from 0 to 100
I can use less than, greater than and equals signs to compare numbers
I can read numbers to at least 100 in numerals
I can read numbers to at least one hundred in words
I can write numbers to at least 100 in numerals
I can write numbers to at least one hundred in words
I can use place value and number facts to solve problems

Addition and Subtraction

I can recall and use addition facts to 20 fluently
I can recall and use subtraction facts to 20 fluently
I can derive and use related facts up to 100
I can add two-digit numbers and ones using objects/pictures and mentally
I can add two-digit numbers and tens using objects/pictures and mentally
I can add two two-digit numbers using objects, pictures and mentally
I can subtract two-digit numbers and ones using objects/pictures and mentally
I can subtract two two-digit numbers using objects, pictures and mentally
I can add three one-digit numbers using objects/pictures and mentally
I can solve addition problems using objects and pictorial representations
I can solve subtraction problems using objects and pictorial representations
I can solve problems by applying my knowledge of written and mental methods
I can show that addition of two numbers can be done in any order and that subtraction of one number from another cannot
I can use the inverse operation to solve missing number problems
I can check my sums by adding the numbers in a different order e.g. (5 + 2 + 1 = 1 + 2 + 5)
I can check my take away sums by using the inverse e.g. (6 - 4 = 2, 2 + 4 = 6)
I can write my addition and subtraction sums in columns
I understand the term "sum"
I understand the term "difference"

Multiplication and Division

I can recall and use multiplication and division facts for my 2x tables
I can recall and use multiplication and division facts for my 5x tables
I can recall and use multiplication and division facts for my 10x tables
I can recognise odd and even numbers when using my 2, 5 and 10x tables
I can calculate mathematical statements for multiplication within the multiplication tables and write them using (x) and (=) signs
I can calculate mathematical statements for division within the multiplication tables and write them using (÷) and equals (=)
I can show that multiplication of two numbers can be done in any order (commutative)
I can show that division of one number by another number cannot be done in any order
I can solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods and multiplication facts including problems in context
I can use a variety of language to describe multiplication
I can use a variety of language to describe division
I can connect my 10 x table to place value
I can connect my 5 x table to divisions on the clock
I can work with a range of materials and contexts in which multiplication division relate to grouping, sharing discrete and continuous quantities
I've started to relate multiplication facts to fractions and measures
I've begun to relate division facts to fractions and measure (e.g. 40 ÷ 2 = 20 and 20 is half of 40)
I can use inverse relations to develop reasoning (e.g. 4 x 5 = 20; 20 ÷ 5 = 4)

Fractions

I can find, name and write one third of a length, shape, set of objects, quantity
I can find, name and write one quarter of a length, shape, set of objects, quantity
I can find, name and write two quarters of a length, shape, set of objects, quantity
I can find, name and write three quarters of a length, shape, set of objects, quantity
I can write simple fractions e.g. ½ of 6 = 3
I can recognise the equivalence of two quarters and one half

Statistics

I can interpret and construct simple pictograms, tally charts, block diagrams
I can interpret and construct simple tables
I can count the number of objects in each category
I can sort the categories by quantity
I can answer questions about totalling and comparing categorical data

Measurement (weight, volume, capacity, money, date/time)	Geometry
I can choose and use appropriate standard units to estimate and measure: ▪ **length/height** in any direction (m/cm) using rulers ▪ **mass** (kg/g) using scales ▪ **temperature** (°C) using thermometers ▪ **capacity** (litres/ml) using measuring vessels **I can compare and order: length, mass and volume/capacity, using greater than, less than and equal to signs** **I can recognise and use symbols for pounds (£) and pence (p)** **I can combine different amounts of money to make a particular value** **I can find combinations of coins that equal the same amounts of money** **I can solve simple problems in a practical context involving addition and subtraction of money of the same unit and give the correct change** **I can compare and sequence intervals of time** **I can tell and write the time to five minutes, including quarter past and quarter to the hour** **I can draw the hands on a clock face to show these times: quarter to, quarter past and to five minutes** **I know the number of minutes in an hour** **I know the number of hours in a day** I can use an analogue clock to tell the time and record it	**I can identify and describe 2-D shapes, including the number of sides and line of symmetry in a vertical line** **I can identify and describe 3-D shapes, including the number of edges, vertices and faces** **I can identify 2-D shapes on surface of 3-D shapes. E.g. circle on a cylinder, triangle on a pyramid** **I can compare and sort common 2-D and 3-D shapes and everyday objects** **I can order and arrange combinations of mathematical objects in patterns** **I can order and arrange combinations of mathematical objects in sequences** **I can describe position, direction and movement, including movement in a straight line** **I can distinguish between rotation as a turn and in terms of right angles for quarter half and three-quarter turns clockwise and anticlockwise**

Year 3 Maths Assessment

Number and Place Value

I can count from 0 in multiples of 4
I can count from 0 in multiples of 8
I can count from 0 in multiples of 50
I can count from 0 in multiples of 100
I can find 10 more or less than a given number
I can find 100 more or less than a given number
I can recognise place value of each digit in a 3 digit number (100s,10s and 1s)
I can compare and order numbers up to 1000
I can identify, write and estimate numbers using different representations
I can read numbers up to 1000 in numerals and words
I can write numbers up to 1000 in numerals and words
I can solve problems using my place value knowledge
I can use multiples of 2, 3, 4, 5, 8, 10, 50 and 100
I can partition numbers to 1000 when calculating

Addition and Subtraction

I can add a three digit number and units
I can subtract units from a three digit number
I can add a three digit number and tens
I can subtract tens from a three digit number
I can add a three digit number and hundreds
I can subtract hundreds from a three digit number
I can add numbers with up to 3-digits using written columns
I can subtract numbers with up to 3-digits using written columns
I can estimate the answer to a calculation and use inverse operations to check my answers
I can solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction

Geometry

I can draw 2-D shapes
I can make 3-D shapes using modelling materials
I can recognise 3-D shapes in different orientations and describe them, using accurate vocabulary (faces, edges and vertices)
I can recognise angles as a property of shape or a description of a turn
I can identify right angles
I can recognise that 2 right angles make a half turn, 3 make three quarters of a turn and 4 make a complete turn
I can identify whether angles are greater than or less than a right angle
I can identify horizontal and vertical lines
I can identify pairs of perpendicular and parallel lines

Multiplication and Division

I know my 3x table
I know my 4x tables
I know my 8x tables
I know the division facts for the 3x table
I know the division facts for the 4x table
I know the division facts for the 8x table
I can write and calculate multiplication and division calculations for the multiplication tables I know
I can multiply a two-digit number by a one digit number
I can use a formal written method to multiply a two-digit number by a one digit number
I can solve multiplication problems, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
I can solve division problems, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects
I can solve missing number problems, using my knowledge of multiplication and division

Fractions

I can count up and down in tenths
I can recognise that tenths arise from dividing an object into ten equal parts
I can divide one digit number and quantities by ten
I can recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
I can recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (up to tenths)
I can use diagrams to show equivalent fractions with small denominators (up to tenths)
I can add and subtract fractions with the same denominator within one whole e.g. 1/7 + 2/7 = 3/7
I can compare and order unit fractions,
I can compare and order fractions with the same denominators
I can solve problems that involve all of the above

Statistics

I can interpret data from bar charts, pictograms and tables
I can represent data on bar charts, pictograms and tables
I can solve one and two-step questions (e.g. how many more? How many fewer?) using information presented in scaled bar charts, pictograms and tables

Measurement (weight, volume, capacity, money, date/time)
I can measure, compare, add and subtract lengths (m/cm/m)
I can measure, compare, add and subtract mass (kg/g)
I can measure, compare, add and subtract volume/capacity (l/ml)
I can calculate using mixed units e.g. 1kg + 400g
I know equivalent units of measure e.g. 3m = 300cmor 2l = 2000ml
I can measure the perimeter of simple 2-D shapes
I can add/subtract money and give change (in £ and p) in practical context
I can tell and write the time from an analogue clock.
I can tell and write the time from 12 hour clock
I can tell and write the time from a 24 hour clock
I can tell and write the time using Roman numerals from 1 to XII
I can estimate and read time with increasing accuracy to the nearest minute
I can record and compare times in terms of seconds, minutes and hours
I use vocabulary such as o'clock, am/pm; morning, afternoon, noon and midnight
I know the number of seconds in a minute
I know the number of days in each month
I know the number of days in a year and leap year
I can compare the duration of events by task e.g. calculating the time taken by a particular event or task

Year 4 Maths Assessment

Number and Place Value

I can count in multiples of 6
I can count in multiples of 7
I can count in multiples of 9
I can count in multiples of 25
I can count in multiples of 1000
I can find 1000 more than a given number
I can find 1000 less than a given number
I can count backwards through zero to include negative numbers
I can recognise the place value of each digit in a four-digit numbers (1000s,100s,10s,1s)
I can order and compare numbers beyond 1000
I can identify, represent and estimate numbers using different representations e.g. money, measures, time etc.
I can round any number to the nearest 10
I can round any number to the nearest 100
I can round any number to the nearest 1000
I can solve number and practical problems that involve all of the above and with increasingly large positive numbers
I can read Roman numerals to 100 (I to C) and know that over time, the numeral system changes to include the concept of zero and place value

Addition and Subtraction

I can add numbers with up to four-digits using written columnar methods
I can subtract numbers with up to four-digits using written columnar methods
I can estimate and use inverse operations to check answers
I can solve addition two-step problems in contexts
I can solve subtraction two-step problems in context
I can select a method to solve a problem and explain my reasoning for using it
I can solve mixed addition and subtraction problems, involving more than one step

Geometry

I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties (angle/side/symmetry) and sizes.
I can identify acute and obtuse angles and compare/order angles up to two right angles by size
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 describe positions of coordinates in the first quadrant
I can use the term translation to describe the movement of shapes (left/right/up/down)
I can plot given points and construct and complete 2-D shapes on grid

Fractions

I can recognise and show, using diagrams, families of common equivalent fractions
I can count up and down in hundredths
I can recognise that hundredths arise when dividing an object by one hundred
I can explain that hundredths are ten times smaller than tenths
I can add fractions with the same denominator
I can subtract fractions with the same denominator
I can recognise and write decimal equivalents of any number of tenths
I can recognise and write decimal equivalents of any number of hundredths
I can recognise and write decimal equivalents to quarters and halves, including numbers greater than one.
I can explain the effect of dividing a one or two-digit number by 10, identifying the value of the digits in the answer as ones, tenths and hundredths
I can explain the effect of dividing a one or two-digit number by 100, identifying the value of the digits in the answer as ones, tenths and hundredths
I can round decimals with one decimal place to the nearest whole number
I can compare numbers with the same number of decimal places up to two decimal places
I can solve simple measure problems involving fractions and decimals to two decimal places
I can solve simple money problems involving fractions and decimals to two decimal places
I can solve increasingly harder fraction problems to calculate quantities and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Multiplication and Division

I can recall multiplication and division facts for multiplications tables up to 12 x 12
I can use place value, known and derived facts to multiply mentally, including multiplying by 0 and 1
I can use place value, known and derived facts to divide mentally, including dividing by 0 and 1
I can use place value, known and derived facts to multiply together three numbers
I can recognise and use factor pairs and commutativity in mental calculations
I can multiply two-digit numbers by a one-digit number using formal written layout
I can multiply three-digit numbers by a one-digit number using formal written layout
I can divide two-digit numbers by a single digit
I can divide three-digit numbers by a single digit
I can explain and identify remainders when dividing
I can use place to multiply and divide with multiples of 10 and 100
I can multiply and divide whole numbers by 10 and 100 and explain the effect
I can 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

Statistics	
I can interpret and present discrete and continuous data using appropriate graphical methods, e.g. bar charts and line graphs **I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs**	
Measurement (weight, volume, capacity, money, date/time)	
I can convert between different units of measure (e.g. km to m; hour to minute) **I can measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m** **I can find the area of rectilinear shapes by counting squares** **I can estimate, compare and calculate different measures, including money in pounds and pence** **I can read, write and convert time between analogue and digital 12hr and 24hr clocks** **I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days**	

Year 5 Maths Assessment

Number and Place Value	Multiplication and Division
I can read numbers to at least 1 000 000 and determine the value of each digit I can write numbers to at least 1 000 000 I can order and compare numbers to at least 1 000 000 I can count forwards in steps of powers of 10 from any given number up to 1 000 000 I can count backwards in steps of powers of 10 from any given number from 1 000 000 I can interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero I can round any number up to 1 000 000 to the nearest 10, 100, 1000 I can round any number up to 1 000 000 to the nearest 10 000 and 100 000 I can solve number problems and practical problems that involve all of the above I can read Roman numerals to 1000 (M) I can recognise years written in Roman numerals	I can identify multiples and factors, including finding all factor pairs of a number I can find common factors of two numbers I know and use vocabulary of prime numbers, prime factors and composite (non-prime numbers) I can establish whether a number up to 100 is prime I can recall prime numbers up to 19 I can multiply numbers up to 4 digits by a one-digit number using a formal written I can multiply numbers up to 4 digits by a two-digit number using a formal written method, including long multiplication I can use known facts to multiply and divide numbers mentally I can divide numbers up to 4 digits by a one-digit number using formal written method of short division and interpret appropriate remainders I can multiply whole numbers and those involving decimals by 10, 100 and 1000 I can divide whole numbers and those involving decimals by 10,100 and 1000 I can recognise and use square numbers and the notation for squared
Addition and Subtraction	

I can add whole numbers with more than 4 digits, including using formal written methods (columnar)
I can subtract whole numbers with more than 4 digits, including using formal written methods
I can add numbers mentally with increasingly large numbers
I can subtract numbers mentally with increasingly large numbers
I use rounding to check answers to calculations and determine levels of accuracy
I can solve addition multi-step problems in contexts, deciding which operations and methods to use and why
I can solve subtraction multi-step problems in contexts, deciding which operations and methods to use and why

Geometry

I can identify 3-D shapes, including cubes/other cuboids, from 2-D representations
I know angles are measured in degrees and can estimate and compare acute, obtuse and reflex angles
I can draw given angles and measure them in degrees (°)
I can identify angles at a point and one whole turn (total 360°)
I can identify angles at a point on a straight line and ½ a turn (total 180°)
I can identify other multiples of 90°
I can use the properties of rectangles to deduce related facts and find missing lengths and angles
I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles
I can 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

I can recognise and use cube numbers and the notation for cubed
I can solve problems involving multiplication using my knowledge of factors, multiples, squares and cubes
I can solve problems involving division using my knowledge of factors, multiples, squares and cubes
I can solve problems involving addition, subtraction, multiplication and division and a combination of these, and understand the meaning of the equals sign
I can solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates

Measurement (weight, volume, capacity, money, date/time)

I can convert between different units of metric measure (e.g. km and m; cm and m; cm and mm; g and kg; l and ml)
I understand and use approximate equivalences between metric units and common imperial units e.g. inches, pounds and pints
I measure and calculate the perimeter of composite rectilinear shapes in cm and m
I can calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm^2), square metres (m^2)
I can estimate the area of irregular shapes
I can estimate volume (e.g. using 1 cm3 blocks to build cuboids, including cubes, and capacity e.g. using water)
I can solve problems involving converting between units of time
I can use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation, including scaling)

Fractions, Decimals and Percentages

I can compare and order fractions whose denominators are all multiples of the same number
I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements G greater than 1 as a mixed number e.g. 2/5 + 4/5 = 6/5 which equals 1 1/5
I can add and subtract fractions with the same denominator and denominators that are multiples of the same number
I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
I can read and write decimal numbers as fractions (e.g. 0.71 = 71/100)
I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
I can round decimals with two decimal places to the nearest whole number and to one decimal place
I can read, write, order and compare numbers with up to three decimal places
I can solve problems involving numbers up to three decimal places

Statistics

I can solve comparison, sum and difference problems using information presented in a line graph
I can complete, read and interpret information in tables, including timetables.
I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs
I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs

I recognise the percent symbol (%) and understand that per cent relates to "number of parts per hundred" I can write percentages as a fraction with denominator 100 and as a decimal I can solve problems which require knowing percentage and decimal equivalents of a half, quarter, fifths, tenths and fractions with denominators of multiples of 10 and 25

Year 6 Maths Assessment

Place Value	Fractions, Decimals and Percentages
I can read, write and compare numbers up to 10, 000, 000 and determine the value of each digit. I can round any whole number to a required value accurately I can use negative numbers in context. I can calculate intervals across zero (with positive and negative values) I can solve number and practical problems involving all of the above	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 less than or more than 1. I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions I can multiply simple pairs of proper fractions, writing the answer in its simplest form I can divide proper fractions by whole numbers e. g. one third divided by 2 I can associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375) for a simple fraction (e.g. three eights) I can identify the value of each digit in numbers given to three decimal places I can multiply and divide numbers by 10, 100 and 1000 giving answers to three decimal places I can multiply one-digit numbers with up to two decimal places by whole numbers 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
Number (+ - x ÷)	
I can multiply multi-digit numbers up to 4 digits by a two-digit whole number using formal written methods of long multiplication I can divide numbers up to 4 digits by a two-digit whole number using formal written method of long division and interpret remainders as whole number remainders, fractions or by rounding as appropriate for the context I can divide numbers up to 4 digits by a two-digit number using the formal written method of short division and interpret remainders according to the context	

I can perform mental calculations, including with mixed operations and large numbers
I can identify common factors, common multiples and prime numbers
I can use my knowledge of the order of operations to carry out calculations involving the four operations (BODMAS)
I can solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
I can solve addition, subtraction, multiplication and division problems
I can use estimation to check answers to calculation problems and determine an appropriate degree of accuracy

Geometry

I can draw 2-D shapes using given dimensions and angles
I can recognise, describe and build simple 3-D shapes, including making nets
I can compare and classify geometric shapes based on their properties and sizes
I can find unknown angles in any triangles, quadrilaterals and regular polygons
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
I can describe positions on the full coordinate grid (all four quadrants)
I can draw and translate simple shapes on the coordinate plane and reflect them in the axes

Statistics

I can interpret and construct pie charts and use these to solve problems
I can interpret and construct line graphs and use to solve problems
I can calculate and interpret the mean as an averages

Algebra

I can use simple formulae
I can generate and describe linear number sequences
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 recall and use equivalences between simple fractions, decimals and percentages, including in different contexts

Ratio and Proportion

I can solve 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 e.g. of measures etc. as 15% of 360, and the use of percentages for comparison
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

Measurement (weight, volume, capacity, money, date/time)

I can solve problems involving the calculation and conversion 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 larger units and vice versa, using decimal notation to up to three decimal places
I can convert between miles and kilometres
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
I can recognise when it is possible to use volume for 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 (cm^3) and cubic metres (m^3), and extending to other units e.g. mm^3 and km^3