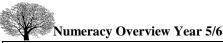


Number Number	Measurement	Geometry	Statistics
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Year 5	Year 5	Year 5	Year 5
Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit	Convert between different units of metric measure (for example,	Identify 3-D shapes, including cubes and	Solve comparison, sum and difference
Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	kilometre and metre; centimetre	other cuboids, from	problems using
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero	and metre; centimetre and	2-D representations	information
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000	millimetre; gram and kilogram; litre and millilitre)	Know angles are	presented in a line graph
Solve number problems and practical problems that involve all of the above	inte and imminte)	measured in degrees:	grupii
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	Understand and use approximate equivalences between metric	estimate and compare acute, obtuse and	Complete, read and interpret
Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)	units and common imperial units	reflex angles	information in
Add and subtract numbers mentally with increasingly large numbers	such as inches, pounds and pints		tables, including
Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy	Measure and calculate the	Draw given angles, and measure them in	timetables.
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	perimeter of composite	degrees (°)	
Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	rectilinear shapes in centimetres and metres	Identify:	
Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers		angles at a	
Establish whether a number up to 100 is prime and recall prime numbers up to 19	Calculate and compare the area of rectangles (including	point and one whole	
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	squares), and including using	turn (total	
Multiply and divide numbers mentally drawing upon known facts	standard units, square centimetres (cm ²) and square	360°) • angles at a	
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	metres (m ²) and estimate the	point on a	
Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	area of irregular shapes	straight line and half a	
Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)	Estimate volume [for example,	turn (total	
Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes	using 1 cm ³ blocks to build cuboids (including cubes)] and	180°) • other	
Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	capacity [for example, using	multiples of	
Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	water]	90°	
Compare and order fractions whose denominators are all multiples of the same number	Solve problems involving	Use the properties of	
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths	converting between units of time	rectangles to deduce	
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number	Use all four operations to solve	related facts and find missing lengths and	
Add and subtract fractions with the same denominator and denominators that are multiples of the same number	problems involving measure [for example, length, mass, volume,	angles	
Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams	money] using decimal notation,	Distinguish between	
Read and write decimal numbers as fractions	including scaling.	regular and irregular	
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents		polygons based on reasoning about equal	
Round decimals with two decimal places to the nearest whole number and to one decimal place		sides and angles.	
Read, write, order and compare numbers with up to three decimal places		Identify, describe and	
Solve problems involving number up to three decimal places		represent the position	
		of a shape following a reflection or	
Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal		translation, using the	
Solve problems which require knowing percentage and decimal equivalents of ½, ¼, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25.		appropriate language,	
		and know that the shape has not changed.	



Year 6

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 zero

Solve number and practical problems that involve all of the above.

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 four 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.

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

Divide proper fractions by whole numbers

Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction

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

Use written division methods in cases where the answer has up to two decimal places

Solve problems which require answers to be rounded to specified degrees of accuracy

Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Solve problems involving the relative sizes of two 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.

Use simple formulae

Generate and describe linear number sequences

Express missing number problems algebraically

Find pairs of numbers that satisfy an equation with two unknowns

Enumerate possibilities of combinations of two variables

Year 6

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three 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 three 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 (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³].

Year 6

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.

Describe positions on the full coordinate grid (all four quadrants)

Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

Year 6

Interpret and construct pie charts and line graphs and use these to solve problems

Calculate and interpret the mean as an average.