Number and Place Value	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number e.g. 2/5 + 4/5 = 6/5 = 1 1/5
Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit e.g. what is the value of the '7' in 276, 541? Find the difference between the largest and smallest whole numbers that can be made from using three digits.	Add and subtract fractions with the same denominator and denominators that are multiples of the same number
Count forwards or backwards in steps of powers of 10 from any given number up to 1 000 000.	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.	Read and write decimal numbers as fractions e.g. 0.71 = 71/100, 8.09 = 8 + 9/?
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
Solve number problems and practical problems that involve ordering and comparing numbers to 1 000 000, counting forwards or backwards in steps, interpreting negative numbers and rounding.	Round decimals with two decimal places to the nearest whole number and to one decimal place
	Read, write, order and compare numbers with up to three decimal places
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	Solve problems involving number up to three decimal places
Addition and Subtraction	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
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	Solve problems which require knowing percentage and decimal equivalents of ½, ¼, ¼, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25
Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.	**Measurement**
	Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	
Multiplication and Division	
Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
Establish whether a number up to 100 is prime and recall prime numbers up to 19	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes.
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	Estimate volume e.g. using 1cm^2 blocks to build cuboids (including cubes) and capacity e.g. using water
Multiply and divide numbers mentally drawing upon known facts	Solve problems involving converting between units of time
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	Use all four operations to solve problems involving measure e.g. length, mass, volume, money using decimal notation, including scaling.
	Properties of Shape
Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000	
Recognise and use square numbers and the notation for squared (^{2})	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.

Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles
	Draw given angles, and measure them in degrees (°)
Recognise and use cube numbers and the notation for cubed (^{3})	Identify angles at a point and one whole turn (total 360°)
	Identify angles at a point on a straight line and ½ a turn (total 180°)
Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.	Identify other multiples of 90°
	Use the properties of rectangles to deduce related facts and find missing lengths and angles
Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles
	Position and Direction
Fractions	Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that they shape has not changed
Compare and order fractions whose denominators are all multiples of the same number	
Identify and name equivalent fractions of a given fraction, represented visually, including tenths and hundredths	**Statistics**
	Solve comparison, sum and difference problems using information presented in a line graph
Write equivalent fractions of a given fraction, represented visually including tenths and hundredths	Complete, read and interpret information in tables including timetables