

Problem solving skills sit within each objective.

Number and Place Value	Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit.	
	Round any number, up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000.	
	Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.	
	Count forwards and backwards in steps of powers of 10 for any given number to 1 000 000.	
	Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.	
Addition and Subtraction	Add and subtract numbers with more than four digits, including formal written methods of columnar addition and subtraction.	
	Add and subtract numbers mentally with increasingly large numbers.	
Multiplication and Division	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	
	Identify multiples and factors, including all factor pairs of a number and common factors of two numbers.	
	Recognise and use square and cube numbers and the notation (² and ³).	
	Solve problems involving multiplication and division including using their knowledge of factors and multiples, square and cubes.	
	Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple ratios.	
	Establish whether a number up to 100 is a prime number and recall prime numbers up to 19.	
Fractions (including decimals)	Compare and order fractions whose denominators are all the multiples of the same number.	
	Add and subtract fractions whose denominators are multiples of the same number.	
	Solve problems which requiring knowing percentages 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 multiples of 10 and 25.	
	Read, write, order and compare numbers with up to three decimal places.	
	Read/write decimal numbers as fractions (e.g. 0.71 = $\frac{71}{100}$).	
	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	
	Recognise mixed numbers and improper fractions and convert from one form to the other.	
	Recognise and use thousandths and relate them to tenths, hundredths and decimals equivalents.	
Measurement	Calculate and compare area of rectangles (including squares) and including standard units cm^2 and m^2 and estimate the area of irregular shapes.	
	Measure and calculate perimeter of composite rectilinear shapes in cm and m.	
	Convert between different units of metric measure (e.g. km to m, cm to m, cm to mm, kg to g, l to ml).	
Geometry Position & direction Properties of shape	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	
	Draw given angles and measure them in degrees ($^{\circ}$).	
	Identify, describe and represent the position of a shape following a reflection or translation, using appropriate language, and know that the shape has not changed.	
Statistics	Complete, read and interpret information in tables, including timetables.	
	Solve comparison difference problems using information presented in a line graph.	

