Year 6	Algebra	Geometry	number	Addition, subtraction, multiplication, division	Fractions (including decimals and percentages)	Ratio and propartion	Measuring	Statistics
	express missing number problems algebraically use simple formulae expressed in words generate and describe linear number sequences find pairs of numbers that satisfy number sentences involving two unknowns enumerat e all possibilities of combinations of two variables	Properties of shapes	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 whole 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.	ouse 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 (e.g.1/4×1/2=1/8) divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6) associate a fraction equivalents (e.g. 0.375) for a simple fraction (e.g. 3/8) identify the value of each digit to three decimal places and multiply and divide.	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 (e.g. of measures) 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	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	interpret and construct pie charts and line graphs and use these to solve problems calculate and interpret the mean as an average
		coordinate grid (all four quadrants)		· identify common factors,	multiply and divide numbers by 10, 100		calculate, estimate and	

translate simple shapes on the coordinate plane,	and prime numbers ansv	d 1000 where the swers are up to see decimal places multiply	compare volume of cubes and cuboids using standard units, including
and reflect them in the axes	order of operations one- to carry out with calculations decir	e-digit numbers h up to two cimal places by	centimetre cubed (cm3) and cubic metres (m3), and
	operations solve writt addition and meth	ole numbers use tten division thods in cases	extending to other units such as mm3 and km3.
	step problems in has	ere the answer s up to two cimal places solve	
	and methods to use prob and why requ • solve be ro	blems which uire answers to rounded to	
	addition, accu subtraction, • multiplication and use	ecified degrees of curacy recall and equivalences ween simple	
	• use fract estimation to check and answers to inclucalculations and cont	ttions, decimals I percentages, uding in different itexts	
	determine, in the context of a problem, levels of accuracy		