Year 6	Number **number and place value**	Number **addition and subtraction**	Number **multiplication and division**	Number **fractions**
	▪ Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit. ▪ *Identify, represent and estimate numbers using the number line.* ▪ *Order and compare numbers including integers, decimals and negative numbers.* ▪ *Find 0.001, 0.01, 0.1, 1, 10 and powers of 10 more/less than a given number.* ▪ *Round decimals with three decimal places to the nearest whole number or one or two decimal places.* ▪ Multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places. ▪ Use negative numbers in context, and calculate intervals across zero. ▪ *Describe and extend number sequences including those with multiplication and division steps, inconsistent steps, alternating steps and those where the step size is a decimal.*	▪ *Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method).* ▪ *Recall and use addition and subtraction facts for 1 (with decimals to two decimal places).* ▪ Perform mental calculations including with mixed operations and large numbers *and decimals.* ▪ *Add and subtract whole numbers and decimals using formal written methods (columnar addition and subtraction).* ▪ Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	▪ *Choose an appropriate strategy to solve a calculation based upon the numbers involved (recall a known fact, calculate mentally, use a jotting, written method).* ▪ Perform mental calculations, including with mixed operations and large numbers. ▪ Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. ▪ Multiply one-digit numbers with up to two decimal places by whole numbers. ▪ Divide numbers up to 4 digits by a two-digit whole number using the formal written methods of short or long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. ▪ Use written division methods in cases where the answer has up to two decimal places. ▪ Solve problems involving all four operations, *including those with missing numbers.*	▪ Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. ▪ Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. ▪ 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. $\frac{1}{4}$ x $\frac{1}{2}$ = $\frac{1}{8}$). Solve problems involving the calculation of percentages (e.g. of measures and such as 15% of 260) and the use of percentages for comparison.

	Geometry Properties of shape	Geometry position and direction	Measurement	Statistics
	• Draw 2-D shapes using given dimensions and angles. • Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. • Find unknown angles in any triangles, quadrilaterals, regular polygons.	• Describe positions on the full coordinate grid (all four quadrants).	• Use, read and write standard units of length, mass, volume and time using decimal notation to three decimal places. • Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.	• Interpret and construct pie charts and line graphs and use these to solve problems.
	Ratio and Proportion	**Algebra**		
		• Express missing number problems algebraically. • Find pairs of numbers that satisfy an equation with two unknowns.		