



Number – fractions, decimals and percentages	Geometry – properties of shapes	Measurement
▶ Compare and order fractions, including fractions > 1 (<i>including on a number line</i>). ▶ <u>Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.</u> ▶ <u>Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.</u> ▶ Associate a fraction with division and calculate decimal fraction equivalents (e.g. 0.375 and $\frac{3}{8}$). ▶ <u>Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.</u> ▶ <u>Multiply simple pairs of proper fractions, writing the answer in its simplest form</u> (e.g. $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$). ▶ Divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$). ▶ <i>Find simple percentages of amounts.</i> ▶ <u>Solve problems involving fractions.</u> ▶ Solve problems which require answers to be rounded to specified degrees of accuracy. ▶ <u>Solve problems involving the calculation of percentages (e.g. of measures and such as 15% of 260) and the use of percentages for comparison.</u>	▶ Compare/classify geometric shapes based on the properties and sizes. ▶ <u>Draw 2-D shapes using given dimensions and angles.</u> ▶ Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. ▶ Recognise, describe and build simple 3-D shapes, including making nets. ▶ <u>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</u> ▶ <u>Find unknown angles in any triangles, quadrilaterals, regular polygons.</u>	▶ <u>Use, read and write standard units of length, mass, volume and time using decimal notation to three decimal places.</u> ▶ Convert between standard units of length, mass, volume and time using decimal notation to three decimal places. ▶ Convert between miles and kilometres. ▶ Recognise that shapes with the same areas can have different perimeters and vice versa. ▶ Calculate the area of parallelograms and triangles. ▶ Recognise when it is possible to use formulae for area and volume of shapes. ▶ Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units (e.g. mm^3 and km^3). ▶ <i>Calculate differences in temperature, including those that involved a positive and negative temperature.</i> ▶ <u>Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.</u>
Ratio and proportion	Geometry – position and direction	Statistics
▶ Solve problems involving the relative sizes of two quantities where missing values can be found using integer multiplication/division facts. ▶ Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. ▶ Solve problems involving similar shapes where the scale factor is known or can be found.	▶ 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.	▶ <i>Continue to complete and interpret information in a variety of sorting diagrams (including sorting properties of numbers and shapes).</i> ▶ <u>Interpret</u> and construct <u>pie charts and line graphs</u> and use these to solve problems. ▶ <i>Solve comparison, sum and difference problems using information presented in all types of graph.</i> ▶ <u>Calculate and interpret the mean as an average.</u>
Algebra	Statistics	
▶ Use simple formulae. ▶ Generate and describe linear number sequences. ▶ <u>Express missing number problems algebraically.</u> ▶ <u>Find pairs of numbers that satisfy an equation with two unknowns.</u> ▶ Enumerate possibilities of combinations of two variables.		