

NUMBER – number and place value	A1	A2	Sp1	Sp2	Sm1	Sm2
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						
NUMBER – addition, subtraction, multiplication and division	A1	A2	Sp1	Sp2	Sm1	Sm2
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 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 common factors, common multiples and prime numbers						
Use their knowledge of the order of operations to carry out calculations involving the four operations						
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why						
Solve problems involving addition, subtraction, multiplication and division						
Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy						
NUMBER – fractions (including decimal and percentages)	A1	A2	Sp1	Sp2	Sm1	Sm2
Use 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 [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$]						
Divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$]						
Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$]						

Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places						
Multiply one-digit numbers with up to two decimal places by whole numbers						
Use written division methods in cases where the answer has up to two decimal places						
Solve problems which require answers to be rounded to specified degrees of accuracy						
Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts						
RATIO AND PROPORTION	A1	A2	Sp1	Sp2	Sm1	Sm2
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 [for example, of measures, and 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						
ALGEBRA	A1	A2	Sp1	Sp2	Sm1	Sm2
Use simple formulae						
Generate and describe linear number sequences						
Express missing number problems algebraically						
Find pairs of numbers that satisfy an equation with two unknowns						
Enumerate possibilities of combinations of two variables						
MEASUREMENT	A1	A2	Sp1	Sp2	Sm1	Sm2
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						

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 [for example, mm^3 and km^3]						
GEOMETRY – properties of shapes	A1	A2	Sp1	Sp2	Sm1	Sm2
Draw 2-D shapes using given dimensions and angles						
Recognise, describe and build simple 3-D shapes, including making nets						
Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons						
Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius						
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles						
GEOMETRY – position and direction	A1	A2	Sp1	Sp2	Sm1	Sm2
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						
STATISTICS	A1	A2	Sp1	Sp2	Sm1	Sm2
Interpret and construct pie charts and line graphs and use these to solve problems						
Calculate and interpret the mean as an average						