Year 5 Maths Targets	A1	A2	Sp1	Sp2	S1	S2
Number - number and place value						
Work with, understand and identify the value of digits up to 10 000 Inc. decimals						
Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit						
Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000						
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero						
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000						
Solve number problems and practical problems that involve all of the above						
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.						
number - addition and subtraction, multiplication and division						
Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)						
Mentally add and subtract any 2 and 3-digit numbers						
Find the difference between negative numbers						
Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy						
Solve addition and subtraction multi-step problems in contexts, deciding which operations to use and why.						
Identify multiples and be able to find all factor pairs of a number						
Use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers						
Establish whether a number up to 100 is prime and recall prime numbers up to 19						
Multiply numbers up to 4 digits by a one- digit number using a formal written method						
Multiply numbers up to 4 digits by a two-digit number using a formal written method, including long multiplication for two-digit numbers						
Multiply and divide numbers mentally drawing upon known facts						
Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context						
Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000						
Recognise and use squared and cubed numbers and the correct notation (^{2}) or (^{3})						
Solve problems involving multiplication and division using knowledge of factors, multiples, squares and cubes and scaling by simple fractions						
Solve problems involving addition, subtraction, multiplication and division and a combination of these, including accurate use of the equals sign to indicate equivalence, including in missing number problems						
Check answers using inverse operations for both addition and subtraction and multiplication and division						
Explain reasoning behind methods and chosen calculations and why they work.						
Number - Fractions (Inc. decimals and percentages)						
Compare and order fractions whose denominators are the same or multiples of the same number						
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths						
Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, $^2/_5 + ^4/_5 = ^6/_5 = 1^1/_5$]						
Add and subtract fractions with the same denominator and denominators that are multiples of the same number						
Multiply proper fractions and mixed numbers by whole numbers up to 10, using resources						
Read and write decimal numbers as fractions [e.g. $0.71 = ^{71}/_{100}$]						
Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents, ordering and comparing numbers with up to three decimal places						
Round decimals with two decimal places to the nearest tenth or whole number						
Solve problems involving decimals up to three decimal places						
Recognise the per cent symbol (%) and explain that per cent relates to 'number of parts per hundred'						
Write percentages as a fraction with denominator 100, and begin to find simple percentages						
Solve problems which require knowing percentage and decimal equivalents of $^1/_2$, $^1/_4$, $^1/_5$, $^2/_5$, $^4/_5$ and those fractions with a denominator of a multiple of 10 or 25.						

Year 5 Maths Targets	A1	A2	Sp1	Sp2	S1	S2
Measurement						
Convert between different units of metric measures (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)						
Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints						
Calculate the perimeter (formula) and area (counting squares) of rectangles and squares						
Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres						
Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes						
Estimate volume [e.g. using 1 cm^3 blocks to build cuboids (including cubes)]						
Use all four operations to solve problems involving length, mass, time, volume, money including conversions (e.g. secs/mins, days/weeks) using decimal notation, including scaling.						
Geometry - properties of shapes, position and direction						
Identify 3-D shapes, including cubes and other cuboids, from 2-D representations						
Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles						
Draw given angles, and measure them in degrees (º)						
Draw squares, rectangles, and all triangles from given dimensions (to the nearest millimetre) and angles, using a protractor						
Identify multiples of 90°; angles at a point on a straight line and ½ a turn (total 180°); angles at a point and one whole turn (total 360°); reflex angles and compare different angles						
Use the properties of rectangles to find missing lengths and angles						
Distinguish between regular and irregular polygons based on reasoning about equal sides and angles						
Identify, describe and represent the position of a shape following a reflection or translation in all four quadrants, using the appropriate language, and know that the shape has not changed.						
Statistics						
Solve comparison, sum and difference problems using information presented in a line graph						
Complete, read and interpret information presented in pie charts/tables, including timetables						
Independently collect and present data in a graph, bar chart or pie chart, as appropriate.						