

Y5 Autumn Term

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions (including decimals and percentages)	Measurement	Geometry: Properties of Shape	Geometry: Position & Direction	Statistics
Determine the value of each digit to at least 1,000,000. Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000.	Add and subtract numbers mentally with increasingly large numbers. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Add and subtract whole numbers and decimal numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).	Multiply and divide numbers mentally drawing upon known facts. Multiply numbers up to 4 digits by a one or two-digit number using a formal written method, including long multiplication for two-digit numbers. 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 decimal numbers using a formal written method. Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3).	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Compare and order fractions whose denominators are all multiples of the same number. 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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].	Convert between different units of metric measure for length. Measure & calculate the perimeter of composite rectilinear shapes in centimetres and metres - express algebraically. Find missing lengths. Calculate and compare the area of rectangles (including squares) using standard units, cm^2 & m^2 & estimate the area of irregular shapes - express algebraically. Investigate whether shapes with the same area have the same perimeter and vice versa. Tell and convert the time between analogue and digital 12 and 24-hour clocks, to solve problems.	Identify 3D shapes, including cubes and other cuboids, from 2D representations (include properties).		Solve comparison, sum and difference problems using information presented in a line graph.
2 weeks	2 weeks	2 weeks	2 weeks	2-3 weeks	1 week	No coverage	1 week

Spring Term (based on 11 weeks)

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions (including decimals and percentages)	Measurement	Geometry: Properties of Shape	Geometry: Position & Direction	Statistics
Read, write, order and compare numbers to at least 1,000,000	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. Answer missing number addition and subtraction sums (express algebraically).	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. Know and 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.	Add and subtract fractions with the same denominator and multiples of the same number. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. Divide fractions with whole numbers. Read and write decimal numbers as fractions [for example, $0.71 = \frac{71}{100}$]. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents. Read, write, order and compare numbers with up to three decimal places.	Convert between different units of metric measure for mass (gram and kilogram). Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints. Solve problems involving converting between units of time.	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees ($^{\circ}$). Identify angles at a point and one whole turn (total 360°), angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°), other multiples of 90° (relate to turns, use vocab of acute, obtuse, reflex, right angles).	Identify, describe and represent the position of a shape following a reflection, using the appropriate language, and know that the shape has not changed. Symmetry recap.	
1 week	1 week	2 weeks	3 weeks	2 weeks	1 week	1 week	No coverage

Y5 Summer Term

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions (including decimals and percentages)	Measurement	Geometry: Properties of Shape	Geometry: Position & Direction	Statistics
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. Solve number problems and practical problems that involve all of the above. Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why, including temperature problems using negative numbers.	Multiply and divide whole numbers by 10, 100 and 1,000. Solve problems involving multiplication and division, including using knowledge of factors and multiples, squares and cubes. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	Round decimals with two decimal places to the nearest whole number and to one decimal place. Solve problems involving number up to three decimal places. Recognise the per cent symbol (%) and understand that per cent relates to "number of parts per hundred", and write percentages as a fraction with denominator 100, and as a decimal. Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25.	Convert between different units of metric measure for capacity (litre and millilitre). Solve problems involving converting between units of time (timetables, calendars, journeys). Estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes) and capacity [for example, using water] Use all four operations to solve problems involving measure [length, mass, volume, money] using decimal notation including scaling.	Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Make nets of 3D shapes.	Identify, describe and represent the position of a shape following a translation, using the appropriate language, and know that the shape has not changed. Plot points to complete shapes.	Complete, read and interpret information in tables, including timetables. Solve problems involving converting between units of time (timetables, calendars, journeys). If time allows construct bar graphs, line graphs and pie charts and write questions for them in preparation for Y6.
1 week	1 week	1 week	3 weeks	3 weeks	1-2 weeks	1 week	1 week