

Year 6 Maths Overview



Term	Unit	Strand
Autumn Textbook A	Unit 1 (8 lessons)	Place value within 10,000,000: - Numbers to 1,000,000 - Numbers to 10,000,000 - Partition numbers to 10,000,000 - Powers of 10 - Number line to 10,000,000 - Compare and order any number - Round any number - Negative numbers
	Unit 2 (8 lessons)	Four operations (1) - Add integers - Subtract integers - Problem solving- addition and subtraction - Common factors - Common multiples - Rules of divisibility - Primes to 100 - Squares and cubes
	Unit 3 (14 lessons)	Four operations (2) - Multiply by a 1-digit number - Multiply up to a 4-digit number by a 2-digit number - Short division - Division using factors - Divide a 3-digit number by a 2-digit number (long division) - Divide a 4-digit number by a 2-digit number (long division) - Long division with remainders - Order of operations - Brackets - Mental calculations (1) - Mental calculations (2) - Reason from known facts
	Unit 4 (9 lessons)	Fractions (1) - Equivalent fractions and simplifying - Equivalent fractions on a number line - Compare and order fractions - Add and subtract simple fractions - Add and subtract any two fractions - Add mixed numbers - Subtract mixed numbers - Multi-step problems - Problem solving- add and subtract fractions



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	Unit 5 (9 lessons)	Fractions (2) • Multiply fractions by integers • Multiply fractions by fractions (1) • Multiply fractions by fractions (2) • Divide a fraction by an integer (1) • Divide a fraction by an integer (2) • Divide a fraction by an integer (3) • Mixed questions with fractions • Fraction of an amount • Fraction of an amount- find the whole
	Unit 6 (5 lessons)	Measure- imperial and metric measures: • Metric measures • Convert metric measures • Calculate with metric measures • Miles and kilometres • Imperial measures

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Spring Textbook B	Unit 7 (9 lessons)	Ratio and proportion: • Use ratio language • Introduce the ratio symbol • Use ratio • Scale drawing • Scale factors • Similar shapes • Ratio problems • Problem solving- ratio and proportion (1) • Problem solving- ratio and proportion (2)
	Unit 8 (11 lessons)	Algebra: • Find a rule – one step • Find a rule- two steps • Form expressions • Substitutions (1) • Substitutions (2) • Formulae • Form and solve equations • Solve one-step equations • Solve two-step equations • Find pairs of values • Solve problems with two unknowns
	Unit 9 (9 lessons)	Decimals: • Place value to 3 decimal places • Round decimals • Add and subtract decimals • Multiply by 10, 100 and 1000 • Divide by 10, 100 and 1000 • Multiply decimals by integers • Divide decimals by integers • Fractions to decimals • Fractions as division
	Unit 10 (8 lessons)	Percentages: • Understand percentages • Fractions to percentages • Equivalent fractions, decimals and percentages • Order fractions, decimals and percentages • Simple percentages of an amount • Percentages of an amount- 1% • Percentages of an amount • Percentages (missing values)
	Unit 11 (11 lessons)	Measure- perimeter, area and volume: • Shapes- same area • Area and perimeter • Area and perimeter- missing lengths • Area of a triangle- counting squares • Area of a right-angled triangle • Area of any triangle • Area of any parallelogram • Problem solving- area • Problem solving- perimeter • Volume- count cubes • Volume of a cuboid

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Summer Textbook C	Unit 12 (11 lessons)	Statistics: - Interpret line graphs - Draw line graphs - Advanced bar charts - Understand and complete pie charts - Read and interpret pie charts - Pie charts and fractions (1) - Pie charts and fractions (2) - Pie charts and percentages - Introduction to the mean - Calculate the mean - Problem solving- mean
	Unit 13 (12 lessons)	Geometry- properties of shape: - Measure and classify angles - Vertically opposite angles - Angles in a triangle - Angles in a triangle- special cases - Angles in a triangle- missing angles - Angles in quadrilaterals - Angles in polygons - Circles - Parts of a circle - Draw shapes accurately - Nets of 3D shapes (1) - Nets of 3D shapes (2)
	Unit 14 (5 lessons)	Geometry- position and direction: - The first quadrant - Read and plot points in four quadrants - Solve problems with coordinates - Translations - Reflections
	Unit 15 (14 lessons)	Problem solving: - Problem solving- place value - Problem solving- negative numbers - Problem solving- addition and subtraction - Problem solving- four operations (1) - Problem solving- four operations (2) - Problem solving- fractions - Problem solving- decimals - Problem solving- percentages - Problem solving- ratio and proportion - Problem solving- time (1) - Problem solving- time (2) - Problem solving- position and direction - Problem solving- properties of shapes (1) - Problem solving- properties of shapes (2)