

Year 5 - Maths Overview			
Term	Topic	Objectives	Mental Maths Objectives
Autumn	Number: Place Value Week 1/2 and 7	1000s, 100s, 10s and 1s. Numbers to 10,000. Rounding to the nearest 10. Rounding to the nearest 100. Round to nearest 10, 100 and 1,000. Numbers to 100,000. Compare and order numbers to 100,000. Round numbers within 100,000. Numbers to a million. Counting in 10s, 100s, 1,000s, 10,000s, and 100,000s. Compare and order numbers to one million. Round numbers to one million. Negative numbers. Roman Numerals to 1,000.	Count up/down in thousands. Read Roman numerals to 1000. Use knowledge of multiples and factors, test for divisibility ($246 \div 6 = 123 \div 3$). Double and halve money by partitioning (Half of £75.40 = Half of £75 (37.50) plus half of 40p). Know 7x and 9x table; apply and extend.
	Number: Addition and Subtraction Week 3/4	Add two 4-digit numbers - one exchange. Add two 4-digit numbers - more than one exchange. Add whole numbers with more than 4 digits (column method) Subtract two 4-digit numbers - one exchange. Subtract two 4-digit numbers - more than one exchange. Subtract whole numbers with more than 4 digits (column method). Round to estimate and approximate. Inverse operations (addition and subtraction).	

		Multi-step addition and subtraction problems.	
Statistics Week 5/6		Interpret charts. Comparison, sum and difference. Introduce line graphs. Read and interpret line graphs. Draw line graphs. Use line graphs to solve problems. Read and interpret tables. Two-way tables. Timetables.	
Measurement: Perimeter and Area Week 8/9		Measure perimeter. Perimeter on a grid. Perimeter of rectangles. Perimeter of rectilinear shapes. Calculate perimeter. Counting squares. Area of rectangles. Area of compound shapes. Area of irregular shapes.	
Number: Multiplication and Division Week 10/11		Multiples. Factors. Common factors. Prime numbers. Square numbers. Cube numbers. Multiply by 10. Multiply by 100.	

		Multiply by 10, 100 and 1,000. Divide by 10. Divide by 100. Divide by 10, 100 and 1,000. Multiples of 10, 100 and 1,000.	
	Consolidation Week 12		

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Spring	Number: Multiplication and Division Week 1/2 and 6/7	Multiply 2-digits by 1-digit. Multiply 3-digits by 1-digit. Multiply 4-digits by 1-digit. Multiply 2-digits (area model). Multiply 2-digits by 2-digits. Multiply 3-digits by 2-digits. Multiply 4-digits by 2-digits. Divide 2-digits by 1-digit (1). Divide 2-digits by 1-digit (2). Divide 3-digits by 1-digit. Divide 4-digits by 1-digit. Divide with remainders.	Use doubling and halving as mental division/multi strategies ($58 \times 5 =$ half of 58×10). Use knowledge of factors and multiples in multiplication e.g. (43×6 is double 43×3 and 28×50 is half of $28 \times 100 = 1400$). Identify all multiples and factors including finding all factor pairs. Know 3x,4x,6x,8x table. Apply and extend. Know square numbers and square roots up to 144. Recall prime numbers up to 19.
	Number: Fractions Week 3/4/5 and 8/9/10	What is a fraction? Equivalent fractions (1). Equivalent fractions. Fractions greater than 1. Improper fractions to mixed numbers.	

		<p>Mixed numbers to improper fractions Number sequences. Compare and order fractions less than 1. Compare and order fractions greater than 1. Add and subtract fractions. Add fractions within 1. Add 3 or more fractions. Add fractions. Add mixed numbers. Subtract fractions. Subtract mixed numbers. Subtract – breaking the whole. Subtract 2 mixed numbers. Multiply unit fractions by an integer. Multiply non-unit fractions by an integer. Multiply mixed numbers by integers. Calculate fractions of a quantity. Fraction of an amount. Using fractions as operators.</p>	
	<p>Number: Decimals and Percentages Week 11/12</p>	<p>Decimals up to 2 D.Ph. Decimals as fractions (1). Decimals as fractions (2). Understand thousandths. Thousandths as decimals. Rounding decimals. Order and compare decimals. Understand percentages. Percentages as fractions and decimals Equivalent F.D.P.</p>	

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Summer	Number: Decimals Week 1/2 and 5/6	Adding decimals within 1. Subtracting decimals within 1. Complements to 1. Adding decimals – crossing the whole. Adding decimals with the same number of decimal places. Subtracting decimals with the same number of decimal places. Adding decimals with a different number of decimal places. Subtracting decimals with a different number of decimal places. Adding and subtracting wholes and decimals. Decimal sequences. Multiplying decimals by 10, 100 and 1,000. Dividing decimals by 10, 100 and 1,000.	Use place value and number facts to add two or more friendly numbers including money and decimals (e.g., $3+4+8+6+7$, $0.6+0.4+0.7$). Add and subtract decimal numbers which are near multiples of 1 or 10 including money (e.g., $£6.34-1.99$ or $£34.59-£19.95$). Count in 11's and 12's and learn the 11x and 12x table. Add to the next 10 from a decimal number (e.g., $13.6 + 6.4 = 20$). Know number bonds to 1 and to the next whole number.
	Measurement: Converting Units Week 3/4	Kilometres. Kilograms and kilometres. Millimetres and millilitres. Metric units. Imperial units. Converting units of time. Timetables.	
	Geometry: Properties of Shape Week 7/8	Identify angles. Compare and order angles. Measure angles in degrees. Measuring with a protractor (1).	

		<p>Measuring with a protractor (2). Drawing lines and angles accurately. Calculating angles on a straight line. Calculating angles around a point. Triangles. Quadrilaterals. Calculating lengths and angles in shapes. Regular and irregular polygons. Reasoning about 3D shapes.</p>	
	<p>Geometry: Position and Direction Week 9/10</p>	<p>Describe position. Draw on a grid. Position in the first quadrant. Translation. Translation with coordinates. Lines of symmetry. Complete a symmetric figure. Reflection. Reflection with coordinates.</p>	
	<p>Measurement: Volume Week 11</p>	<p>What is volume? Compare volume. Estimate volume. Estimate capacity.</p>	