

Year 6 - Maths Overview			
Term	Topic	Objectives	Mental Maths Objectives
Autumn	Number: Place Week 1 - 2	Numbers to 10,000 Numbers to 100,000 Numbers to a million Numbers to ten million Compare and order any number Round numbers to 10, 100 and 1,000 Round any number Negative numbers	Halve and double decimal numbers with up to 2 places using partitioning e.g. 36.73 doubled is double 36 plus double 0.73) Know by heart all multiplication and division facts up to 12 x 12. Apply and extend Use rounding in mental multiplication (34 x 19 as (20 x 34) - 34) Use doubling and halving as a mental division and multiplication strategy e.g. to divide by 2, 4, 8, 5, 20 and 25 (628 ÷ 8 is halved three times) (28 x 25 is ¼ of 28 x 100 = 700)
	Number: Addition, Subtraction, Multiplication and Division Week 3 - 6	Add whole numbers with more than 4 digits Subtract whole numbers with more than 4 digits Inverse operations (addition and subtraction) Multi-step addition and subtraction problems Add and subtract integers Multiply 4-digits by 1-digit Multiply 2-digits (area model) Multiply 2-digits by 2-digits Multiply 3-digits by 2-digits Multiply up to a 4-digit number by 2-digit number Divide 4-digits by 1-digit Divide with remainders Short division Division using factors	

	<p>Number: Fractions Week 7 - 11</p>	<p>Equivalent fractions Simplify fractions Improper fractions to mixed numbers Mixed numbers to improper fractions Fractions on a number line Compare and order (denominator) Compare and order (numerator) Add and subtract fractions (1) Add and subtract fractions (2) Add mixed numbers Add fractions Subtract mixed numbers Subtract fractions Mixed addition and subtraction Multiply fractions by integers Multiply fractions by fractions Divide fractions by integers (1) Divide fractions by integers (2) Four rules with fractions Fraction of an amount Fraction of an amount – find the whole</p>	
	<p>Geometry: Position and Direction Week 12</p>	<p>The first quadrant Four quadrants Translations Reflections</p>	

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Spring	Number: Decimals Week 1 - 2	Decimals up to 2 decimal places Understand thousandths Three decimal places Multiply by 10, 100 and 1,000 Divide by 10, 100 and 1,000 Multiply decimals by integers Divide decimals by integers Division to solve problems Decimals as fractions Fractions to decimals (1) Fractions to decimals (2)	Use divisibility tests to aid mental calculation Use place value and number facts in mental multi ( $40,000 \times 6 = 24,000$ ) Identify common factors, common numbers and prime numbers and use factors in mental division ( $438 \div 6$ is $219 \div 3$ ) Identify common factors, common numbers and prime numbers and use factors in mental multiplication (e.g. $326 \times 6$ is $652 \times 3$ ) Know by heart all multiplication and division facts up to $12 \times 12$ . Apply and extend Add positive number to negative numbers (e.g. calculate a rise in temp)
	Number: Percentages Week 3 - 5	Understand percentages Fractions to percentages Equivalent FDP Order FDP Percentage of an amount (1) Percentage of an amount (2) Percentages – missing values	
	Number: Algebra Week 5 - 6	Find a rule – one step Find a rule – two step Forming expressions Substitution Formulae	

		Forming equations Solve simple one-step equations Solve two-step equations Find pairs of values Enumerate possibilities	
	Measurement: Converting Units Week 7	Metric measures Convert metric measures Calculate with metric measures Miles and kilometres Imperial measure	
	Measurement: Perimeter, area and volume Week 8 - 9	Shapes – same area Area and perimeter Area of a triangle (1) Area of a triangle (2) Area of a triangle (3) Area of parallelogram What is volume? Volume – counting cubes Volume of a cuboid	
	Number: Ratio Week 10 - 11	Using ratio language Ratio and fractions Introducing the ratio symbol Calculating ratio Using scale factors Calculating scale factors Ratio and proportion problems	

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Summer	Statistics Week 1-2	Read and interpret line graphs Draw line graphs Use line graphs to solve problems Circles Read and interpret pie charts Pie charts with percentages Draw pie charts The mean	Add two 1-place decimal numbers or two 2-place decimal numbers less than 1 ( $4.5 + 6.5$ or $0.74 + 0.33$ ) Count forward and backward with positive and negative numbers through zero. Know all multiplication tables to 12x Apply and extend Derive quickly and without difficulty, number bonds to 1000 Use number bonds to 1 and 10 to perform mental subtraction of any pair of one-place
	Geometry: Properties of shape Week 3 - 5	Measure with a protractor Draw lines and angles accurately Introduce angles Angles on a straight line Angles around a point Calculate angles Vertically opposite angles Angles in a triangle Angles in a triangle – special cases Angles in a triangle – missing angles Angles in special quadrilaterals Angles in regular polygons Draw shapes accurately Draw nets of 3D shapes	

	Consolidation and themed projects Week 6 - 12		
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