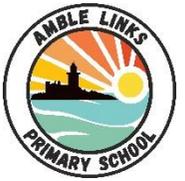


Amble Links Primary School
Year 5 Maths - Yearly Overview & Term by Term Objectives

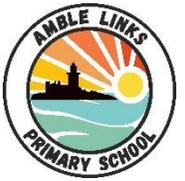
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value			Number: Addition and Subtraction		Number: Multiplication and Division A			Number: Fractions A			
Spring	Number: Multiplication and Division B			Number: Fractions B		Number: Decimals and Percentages			Measurement: Perimeter and Area		Statistics	
Summer	Geometry: Shape			Geometry: Position and Direction		Number: Decimals			Number: Negative Numbers	Measurement: Converting Units		Measurement: Volume



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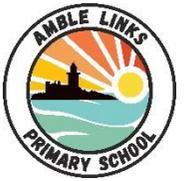
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	<u>Number: Place Value</u>			<u>Number: Addition and Subtraction</u>			<u>Number: Multiplication and Division A</u>			<u>Number: Fractions A</u>		
	<p>Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000</p> <p>Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit</p> <p>Read Roman numerals to 1000 (M) and recognise years written in Roman numerals</p> <p>Interpret negative numbers in context</p> <p>Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000</p> <p>Solve number problems and practical problems that involve all of the above</p>			<p>Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)</p> <p>Add and subtract numbers mentally with increasingly large numbers</p> <p>Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why</p> <p>Solve problems involving addition, subtraction, multiplication and division and a combinations of these, including the meaning of the equals sign</p>			<p>Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers</p> <p>Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers</p> <p>Establish whether a number up to 100 is prime and recall prime numbers up to 19</p> <p>Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)</p> <p>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</p> <p>Multiply and divide numbers mentally drawing upon known facts</p> <p>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</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000</p> <p>Solve problems involving multiplication and division using their knowledge of factors and multiples, squares and cubes</p> <p>Solve problems involving addition, subtraction, multiplication and division and a combinations of these, including the meaning of the equals sign</p> <p>Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</p>			<p>Compare and order fractions whose denominators are all multiples of the same number</p> <p>Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths</p> <p>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, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$)</p> <p>Add and subtract fractions with the same denominator and denominators that are multiples of the same number</p> <p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</p>		



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Spring	<u>Number: Multiplication and Division B</u>	<u>Number: Fractions B</u>	<u>Decimals and Percentages</u>	<u>Measurement: Perimeter and Area</u>	<u>Statistics</u>
	<p>Multiply numbers up to four digits by a 1- or 2-digit number using a formal written method, including long multiplication for 2-digit numbers</p> <p>Divide up to four digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context</p> <p>Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes</p>	<p>Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams</p> <p>Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number (Y4)</p>	<p>Read and write decimals numbers as fractions (for example, $0.71 = \frac{71}{100}$)</p> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p> <p>Round decimals with two decimal places to the nearest whole number and to one decimal place</p> <p>Read, write, order and compare numbers with up to three decimal places</p> <p>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</p> <p>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</p>	<p>Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres</p> <p>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</p> <p>Use all four operations to solve problems involving measure using decimal notation, including scaling</p>	<p>Complete, read and interpret information in tables, including timetables</p> <p>Solve comparison, sum and difference problems using information presented in a line graph</p>



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Summer	<u>Geometry: Shape</u> <p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles</p> <p>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p> <p>Know angles are measures in degrees: estimate and compare acute, obtuse and reflex angles</p> <p>Draw given angles, and measure them in degrees</p> <p>Identify:</p> <ul style="list-style-type: none"> • 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° 	<u>Geometry: Position and Direction</u> <p>Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changes</p>	<u>Number: Decimals</u> <p>Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</p> <p>Solve problems involving number up to 3 decimal places</p> <p>Read, write, order and compare numbers with up to 3 decimal places</p> <p>Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000</p>	<u>Number: Negative Numbers</u> <p>Count forwards and backwards with positive and negative whole numbers, including through zero</p>	<u>Measurement: Converting Units</u> <p>Convert between different units of metric measure</p> <p>Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints</p> <p>Solve problems involving converting between units of time</p> <p>Use all four operations to solve problems involving measure using decimal notation, including scaling</p>	<u>Measurement: Volume</u> <p>Estimate volume (for example, using 1cm³ blocks to build cuboids (including cubes) and capacity (for example using water)</p> <p>Use all four operations to solve problems involving measure using decimal notation, including scaling</p>