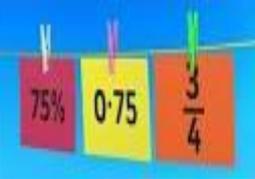




## Year 5 Maths Curriculum - Overview of Objectives

Unit		Objectives
<b>Unit 1</b>  <b>To know and use numbers</b>  	<b>1A</b>	Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit.
	<b>1B</b>	Count forwards and backwards in steps of powers of 10 for any given number up to 1,000,000.
	<b>1C</b>	Interpret negative numbers in context, count forwards and backwards with positive whole numbers, including through zero.
	<b>1D</b>	Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.
	<b>1E</b>	Solve number problems and practical problems that involve all of the above.
	<b>1F</b>	Read Roman numerals to 1000 (M) and recognise years within Roman numerals.
<b>Unit 2</b>  <b>To add and subtract</b>  	<b>2A</b>	Add and subtract whole numbers with more than 4 digits, including using formal written methods. (column addition and subtraction)
	<b>2B</b>	Add and subtract mentally with increasingly larger numbers.
	<b>2C</b>	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.
	<b>2D</b>	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
<b>Unit 3</b>  <b>To multiply and divide</b>  	<b>3A</b>	Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.
	<b>3B</b>	Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.
	<b>3C</b>	Establish whether a number up to 100 is a prime and recall prime numbers up to 19.
	<b>3D</b>	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.
	<b>3E</b>	Multiply and divide numbers mentally drawing upon known facts.
	<b>3F</b>	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.
	<b>3G</b>	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.
	<b>3H</b>	Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3).

	<b>3I</b>	Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.
<p style="text-align: center;"><b>Unit 4</b></p> <p style="text-align: center;"><b>To use fractions (including decimals and percentages)</b></p> 	<b>3J</b>	Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.
	<b>3K</b>	Solve problems involving multiplication and division, including scaling by simple fractions and problem solving involving simple rates.
	<b>4A</b>	Compare and order fractions whose denominators are all multiples of the same number.
	<b>4B</b>	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.
	<b>4C</b>	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 $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ )
	<b>4D</b>	Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
	<b>4E</b>	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.
	<b>4F</b>	Read and write decimal numbers as fractions (for example, $0.71 = 71/100$ )
	<b>4G</b>	Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.
	<b>4H</b>	Round decimals with two places to the nearest whole number and to one decimal place.
	<b>4I</b>	Read, write, order and compare numbers with up to three decimal places.
<b>4J</b>	Recognise the per cent symbol (%) and understand per cent relates to 'number of parts per hundred), and write percentages as a fraction with denominator 100, and as a decimal.	
<b>4K</b>	Solve problems which require knowing percentage and decimal equivalents of $1/2$ , $1/4$ , $1/5$ , $2/5$ , $4/5$ and those fractions with a denominator of a multiple of 10 or 25.	
<p style="text-align: center;"><b>Unit 5</b></p> <p style="text-align: center;"><b>To use measures</b></p> 	<b>5A</b>	Convert between different units of metric measure, for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre.
	<b>5B</b>	Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints.
	<b>5C</b>	Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres.
	<b>5D</b>	Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres ( $\text{cm}^2$ ) and square metres ( $\text{m}^2$ ) and estimate the area of irregular shapes.
	<b>5E</b>	Estimate volume [for example, using $1 \text{ cm}^3$ blocks to build cuboids (including cubes)] and capacity (for example, using water)
	<b>5F</b>	Solve problems involving converting between units of time.
	<b>5G</b>	Use all four operations to solve problems involving measure (for

		example, length, mass, volume, money) using decimal notation, including scaling.
<p><b>Unit 6</b></p> <p>To understand the properties of shapes</p> 	6A	Identify 3D shapes, including cubes and other cuboids, from 2D representations.
	6B	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.
	6C	Draw given angles, and measure them in degrees.
	6D	Identify: <ul style="list-style-type: none"> <li>• Angles at a point and one whole turn (total 360 degrees)</li> <li>• Angles at a point on a straight line and <math>\frac{1}{2}</math> a turn (total 180 degrees)</li> <li>• Other multiples of 90 degrees.</li> </ul>
	6E	Use the properties of rectangles to deduce related facts and find missing lengths and angles.
	6F	Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
<p><b>Unit 7</b></p> <p>To describe position, direction and movement</p> 	7A	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 changed.
<p><b>Unit 8</b></p> <p>To use statistics</p> 	8A	Solve comparison, sum and difference problems using the information presented in a pictograms, bar and line graphs and pie charts.
	8B	Complete, read and interpret information in tables, including timetables.