



Year 6 Maths Curriculum - Overview of Objectives

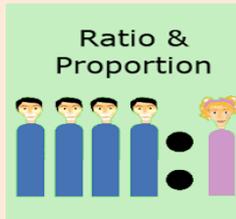
Unit		Objectives
Unit 1 To know and use numbers 	1A	Read, write, order and compare numbers to at least 10,000,000 and determine the value of each digit.
	1B	Round any number to a required degree of accuracy.
	1C	Use negative numbers in context and calculate intervals across 0.
	1D	Solve number and practical problems that involve all of the above.
Unit 2 To add, subtract, multiply and divide 	2A	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
	2B	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole remainders, fractions, or by rounding, as appropriate for the context.
	2C	Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.
	2D	Perform mental calculations, including with mixed operations and large numbers.
	2E	Identify common factors, common multiples and prime numbers.
	2F	Use their knowledge of the order of operations to carry out calculations involving the 4 operations.
	2G	Solve multi-step problems involving all 4 operations
	2H	Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.
Unit 3 To use fractions (including decimals and percentages) 	4A	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
	4B	Compare and order fractions, including fractions > 1 .
	4C	Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.
	4D	Multiply simple pairs of proper fractions, writing the answer in its simplest form.
	4E	Divide proper fractions by whole numbers.
	4F	Associate a fraction with division and calculate decimal fraction equivalents for a simple fraction.
	4G	Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000.

	4H	Multiply one-digit numbers with up to two decimal places by whole numbers.
	4I	Use written division methods in cases where the answer has up to two decimal places.
	4J	Solve problems which require answers to be rounded to specified degrees of accuracy.
	4K	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
<p>Unit 5</p> <p>To use measures</p> 	5A	Solve problems involving conversion of units of measure, using decimal notation up to 3 decimal places where appropriate.
	5B	Convert measurements of length, mass, volume and time, using decimal notation up to 3 decimal places.
	5C	Convert between miles and kilometres.
	5D	Recognise that shapes with the same areas can have different perimeters and vice versa.
	5E	Recognise when it is possible to use formulae for area and volume of shapes.
	5F	Calculate the area of parallelograms and triangles.
	5G	Calculate, estimate and compare volume of cubes and cuboids using standard units.
<p>Unit 6</p> <p>To understand the properties of shapes</p> 	6A	Draw 2D shapes using given dimensions and angles.
	6B	Recognise, describe and build simple 3-D shapes, including making nets.
	6C	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.
	6D	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.
	6E	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
<p>Unit 7</p> <p>To describe position, direction and movement</p> 	7A	Describe positions on the full coordinate grid (all 4 quadrants).
	7B	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
<p>Unit 8</p> <p>To use statistics</p>	8A	Interpret and construct pie charts and line graphs and use these to solve problems.
	8B	Calculate and interpret the mean as an average.



Unit 9

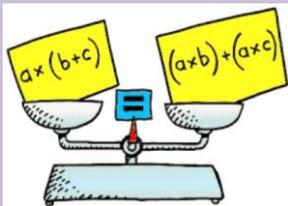
Ratio and Proportion



- | | |
|-----------|--|
| 9A | Solve problems involving the relative sizes of 2 quantities where missing values can be found using integer multiplication and division facts. |
| 9B | Solve problems involving the calculation of percentages and the use of percentages for comparison. |
| 9C | Solve problems involving similar shapes where the scale factor is known or can be found. |
| 9D | Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples. |

Unit 10

Algebra



- | | |
|------------|---|
| 10A | Use simple formulae |
| 10B | Generate and describe linear number sequences. |
| 10C | Express missing number problems algebraically. |
| 10D | Find pairs of numbers that satisfy an equation with 2 unknowns. |
| 10E | Enumerate possibilities of combinations of 2 variables. |