

Year 6 Programme of Study - 'Term per page overview' 2016-7

Term		National Curriculum requirements
Autumn	Integers	read, write, order and compare numbers up to 10 000 000 and determine the value of each digit
	(2 weeks)	round any whole number to a required degree of accuracy
		solve problems involving addition and subtraction
		generate and describe linear number sequences
		solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
	Multiplication and division	multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication
	(3 weeks)	 multiply one-digit numbers with up to two decimal places by whole numbers 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 number remainders, fractions, or by rounding, as appropriate for the context 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
		use written division methods in cases where the answer has up to two decimal places calculate and interpret the mean as an average
		identify common factors, common multiples and prime numbers
		perform mental calculations, including with mixed operations and large numbers
		express missing number problems algebraically
		solve problems which require answers to be rounded to specified degrees of accuracy
	Calculation problems	 find pairs of numbers that satisfy an equation with two unknowns use their knowledge of the order of operations to carry out calculations
	(2 weeks)	involving the four operations
	(2 Weeks)	 express missing number problems algebraically solve problems involving addition, subtraction, multiplication and division
		 use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
	Missing angles and lengths	 recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. express missing number problems algebraically
	(1 week)	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
	Coordinates and shape	 use negative numbers in context, and calculate intervals across zero describe positions on the full coordinate grid (all four quadrants)
	(2 weeks)	enumerate possibilities of combinations of two variables
	(2 weeks)	 draw 2-D shapes using given dimensions and angles draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
		recognise, describe and build simple 3-D shapes, including making nets
		illustrate and name parts of circles, including radius, diameter and
		circumference and know that the diameter is twice the radius
		solve number and practical problems that involve all of the above



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Spring	Fractions	use common factors to simplify fractions; use common multiples to express
		fractions in the same denomination
		• compare and order fractions, including fractions > 1
	(3 weeks)	generate and describe linear number sequences (with fractions)
		add and subtract fractions with different denominators and mixed numbers,
		using the concept of equivalent fractions
		• multiply simple pairs of proper fractions, writing the answer in its simplest
		form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$]
		• divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$]
		associate a fraction with division and calculate decimal fraction equivalents
		[for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$]
		recall and use equivalences between simple fractions and decimals, including
		in different contexts
	Proportion	solve problems involving the relative sizes of two quantities where missing
	problems	values can be found by using integer multiplication and division facts
	(2 weeks)	solve problems involving similar shapes where the scale factor is known or can be found
	(= weeks)	solve problems involving unequal sharing and grouping using knowledge of
		fractions and multiples
	Decimals and	identify the value of each digit in numbers given to three decimal places and
	measures	multiply and divide numbers by 10, 100 and 1000 giving answers up to three
	(o vyoolya)	decimal places
	(3 weeks)	• solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate
		 use, read, write and convert between standard units, converting
		measurements of length, mass, volume and time from a smaller unit of
		measure to a larger unit, and vice versa, using decimal notation to up to three
		decimal places
		• convert between miles and kilometres
		recognise that shapes with the same areas can have different perimeters and vice versa
		 recognise when it is possible to use formulae for area and volume of shapes
		use simple formulae
		calculate the area of parallelograms and triangles
		calculate, estimate and compare volume of cubes and cuboids using standard
		units, including cubic centimetres (cm³) and cubic metres (m³), and extending
	Percentages	to other units [for example, mm³ and km³]
	and	recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
	statistics	 solve problems involving the calculation of percentages [for example, of
		measures, and such as 15% of 360] and the use of percentages for comparison
	(2 weeks)	• interpret and construct pie charts and line graphs and use these to solve
		problems
		calculate and interpret the mean as an average



Summer term

We do not provide specific guidance for Year 6 in the summer term. Schools should instead plan to use the term to consolidate and apply previously learnt topics using their own assessments to identify which areas need further development.

Schools should also allow time to prepare children for KS2 tests in May and transition to Year 7 in early July.