

Whitegate CE Primary School "Trusting in God; Growing in Wisdom"

Year Three

Number	 Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.
Place value	 Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).
	Compare and order numbers up to 1000.
	 Round numbers (up to 1000) to the nearest ten or hundred.
	 Identify, represent and estimate numbers using different representations.
	Read and write numbers up to 1000 in numerals and in words.
	 Use larger numbers to at least 1000, applying partitioning to place value [for example, 146 = 100 + 40 + 6; 146 = 130 + 16].
	 Solve number problems and practical problems involving these ideas.
Addition and	Add and subtract numbers mentally, including:
Subtraction	- a three-digit number and ones;
	- a three-digit number and tens;
	- a three-digit number and hundreds.
	Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction. [See Calculation Police
	and video footage.]
	 Estimate the answer to a calculation [by using rounding] and use inverse operations to check answers.
	• Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.
Multiplication	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables. [Through doubling, connect the 2, 4 & 8 multiplication
and Division	tables.]
	• Develop efficient mental methods [for example, 4 x 12 x 5 = 4 x 5 x 12 = 20 x 12 = 240 and 3 x 2 = 6; 6 ÷ 3 = 2 and 6 ÷ 2 = 3].
	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two
	digit numbers times one-digit numbers, using mental and progressing to formal written methods.
	Solve problems, including:
	- missing number problems
	- positive integer scaling problems [for example, four times as high, eight times as long]
	- correspondence problems in which n objects are connected to m objects [for example, 3 hats and four coats, how many different outfits
Fractions	• Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or
	quantities by 10. [Link to division by 10.]
	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.
	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. [Use number lines to deduce
	relationships between them, such as size and equivalence.]
	Recognise and show, using diagrams, equivalent fractions with small denominators.
	 Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7].
	 Compare and order unit fractions, and fractions with the same denominators.
	 Solve problems that involve all of the above.

Measurement	• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml). [Compare and use mixed units such as 1kg and
	200g. use simple equivalents of mixed units, for example, 5m = 500 cm.]
	Measure the perimeter of simple 2-D shapes.
	 Add and subtract amounts of money to give change, using both £ and p in practical contexts. [Record £ and p separately as the decimal recording of money is introduced formally in Y4.]
	• Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks.
	• Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours.
	 Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.
	 Know the number of seconds in a minute and the number of days in each month, year and leap year.
	 Compare durations of events [for example to calculate the time taken by particular events or tasks].
Geometry	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them [extending
Properties of	at this stage to symmetrical and non-symmetrical polygons and polyhedral].
Shapes	 Recognise angles as a property of shape or a description of a turn.
	 Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn.
	 Identify whether angles are greater than or less than a right angle.
	 Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
	 Connect decimals and rounding to drawing and measuring straight lines in centimetres.
Statistics	 Interpret and present data using bar charts, pictograms and tables.
	• Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar
	charts [for example, 2, 5, 10 units per cm] and pictograms and tables.