

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

## Year Three

Number	<ul> <li>Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.</li> </ul>
Place value	<ul> <li>Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).</li> </ul>
	Compare and order numbers up to 1000.
	<ul> <li>Round numbers (up to 1000) to the nearest ten or hundred.</li> </ul>
	<ul> <li>Identify, represent and estimate numbers using different representations.</li> </ul>
	Read and write numbers up to 1000 in numerals and in words.
	<ul> <li>Use larger numbers to at least 1000, applying partitioning to place value [for example, 146 = 100 + 40 + 6; 146 = 130 + 16].</li> </ul>
	<ul> <li>Solve number problems and practical problems involving these ideas.</li> </ul>
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.]
	<ul> <li>Estimate the answer to a calculation [by using rounding] and use inverse operations to check answers.</li> </ul>
	• 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.
	<ul> <li>Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7].</li> </ul>
	<ul> <li>Compare and order unit fractions, and fractions with the same denominators.</li> </ul>
	<ul> <li>Solve problems that involve all of the above.</li> </ul>

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.
	<ul> <li>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.]</li> </ul>
	• 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.
	<ul> <li>Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.</li> </ul>
	<ul> <li>Know the number of seconds in a minute and the number of days in each month, year and leap year.</li> </ul>
	<ul> <li>Compare durations of events [for example to calculate the time taken by particular events or tasks].</li> </ul>
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	<ul> <li>Recognise angles as a property of shape or a description of a turn.</li> </ul>
	<ul> <li>Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn.</li> </ul>
	<ul> <li>Identify whether angles are greater than or less than a right angle.</li> </ul>
	<ul> <li>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</li> </ul>
	<ul> <li>Connect decimals and rounding to drawing and measuring straight lines in centimetres.</li> </ul>
Statistics	<ul> <li>Interpret and present data using bar charts, pictograms and tables.</li> </ul>
	• 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.