

MATHS CURRICULUM MAP YEAR 3

Based on White Rose Maths

Year 3	Main Topic area Taught:	Small steps:	National Curriculum Objective:	By the end of this topic, the children will know this vocabulary
Autumn	<u>Number: Place Value</u> 3 weeks	<ul style="list-style-type: none"> • Hundreds • Represent numbers to 1000 • 100s, 10s and 1s (1) • 100s, 10s and 1s (2) • Number line to 1000 • Find 1, 10, 100 more or less than a given number • Compare objects to 1000 • Compare numbers to 1000 • Order numbers • Count in 50s 	<ul style="list-style-type: none"> • Count from 0 in multiples of 4, 8, 50 and 100 • Find 10 or 100 more or less than a given number • Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) • Compare and order numbers up to 1000 • Identify, represent and estimate numbers using different representations • Read and write numbers up to 1000 in numerals and in words • Solve number problems and practical problems involving these ideas. 	number, base 10, grouping, more (than), less (than), fewer, greater, most, least, compare, order, units, ones, tens, hundreds, thousands, exchange, digit, place, place value, represents, partition, equal to, estimate, guess, roughly, about the same as, round, exact(ly)
	<u>Number: Addition and Subtraction</u> 5 weeks	<ul style="list-style-type: none"> • Add and subtract multiples of 100 • Add and subtract 3-digit and 1-digit numbers-crossing 20 • Add 3-digit and 1-digit numbers-crossing 10 • Subtract a 1-digit number 	<ul style="list-style-type: none"> • Add and subtract numbers mentally, including: <ul style="list-style-type: none"> • a three-digit number and ones • a three-digit number and tens • a three-digit number and 	number, base 10, grouping, count (on, back, to, from), more (than), less (than), fewer, greater, most, least, units, ones, tens, hundreds, thousands, exchange, digit, place, place value, represents, partition, recombine, equal to, estimate, guess, roughly, about the same as,

		<p>from a 3-digit number – crossing 10</p> <ul style="list-style-type: none"> • Add and subtract 3-digit and 2-digit numbers –not crossing 100 • Add 3-digit and 2-digit numbers – crossing 100 • Subtract a 2-digit number from a 3-digit number – crossing 100 • Add and subtract 100s • Spot the pattern –making it explicit • Add and subtract a 2-digit and 3-digit numbers –not crossing 10 or 100. • Add a 2-digit and 3-digit numbers –crossing 10 or 100 • Subtract a 2-digit number from a 3-digit number – crossing 10 or 100. • Add two 3-digit numbers – not crossing 10 or 100. • Add two 3-digit numbers – crossing 10 or 100. • Subtract a 3-digit number from a 3-digit number – no exchange. 	<p>hundreds</p> <ul style="list-style-type: none"> • Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Estimate the answer to a calculation and use inverse operations to check answers • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. 	<p>round, exact(ly), multiple of, sequence, continue, predict, rule, add, plus, sum, total, altogether, subtract, take (away), minus, how many more/fewer, difference between</p>
	<p><u>Number: Multiplication and Division</u></p> <p>3 weeks</p>	<ul style="list-style-type: none"> • Multiplication – equal groups • Multiply by 3 • Divide by 3 • The 3 times table • Multiply by 4 • Divide by 4 • The 4 times table • Multiply by 8 • Divide by 8 • The 8 times table 	<ul style="list-style-type: none"> • Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • 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 	<p>multiple, multiplication, multiply, lots of, groups of, product, repeated addition, array, ... times as ... (e.g. 3 times as long), scale up, estimate, efficient, division, inverse, lots of, groups of, array, row, column, share equally, group in ..., equal groups of, divide, divided by, divided into, left (over), remainder, efficient, partition</p>

			<p>written methods</p> <ul style="list-style-type: none"> Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects. Count from 0 in multiples of 4, 8, 50 and 100. 	
Spring	<p><u>Number: Multiplication and Division</u></p> <p>3 weeks</p>	<ul style="list-style-type: none"> Comparing statements Related calculations Multiply 2-digits by 1-digiy (1) Multiply 2-digits by 1-digiy (2) Divide 2-digits by 1-digit (1) Divide 2-digits by 1-digit (2) Divide 2-digits by 1-digit (3) Scaling How many ways? 	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables 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, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects. 	<p>multiple, multiplication, multiply, lots of, groups of, product, repeated addition, array, ... times as ... (e.g. 3 times as long), scale up, estimate, efficient, division, inverse, lots of, groups of, array, row, column, share equally, group in ..., equal groups of, divide, divided by, divided into, left (over), remainder, efficient, partition</p>
	<u>Measurement: Money</u>	<ul style="list-style-type: none"> Pounds and pence 	<ul style="list-style-type: none"> Add and subtract amounts of 	<p>money, coin, note, penny, pence,</p>

	1 week	<ul style="list-style-type: none"> • Convert pounds and pence • Add money • Subtract money • Give change 	money to give change, using both £ and p in practical contexts.	pound (£), price, cost, buy, bought, sell, sold, spend, spent, pay, change, dear, costs more, more/most expensive, cheap, costs less, cheaper,, less/least expensive, how much...? how many...?, total, amount, value, worth
	<u>Statistics</u> 2 weeks	<ul style="list-style-type: none"> • Pictograms • Bar charts • Tables 	<ul style="list-style-type: none"> • 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 and pictograms and tables. 	graph, tally, block graph, pictogram, bar chart, frequency table, axis/axes, label, title, popular, common, add, plus, sum, total, altogether, subtract, take (away), minus, how many more/fewer, difference between, efficient
	<u>Measurement: Length and Perimeter</u> 3 weeks	<ul style="list-style-type: none"> • Measure length • Equivalent lengths –m and cm • Equivalent lengths –mm and cm • Compare lengths • Add lengths • Subtract lengths • Measure perimeter • Calculate perimeter 	<ul style="list-style-type: none"> • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • Measure the perimeter of simple 2-D shapes 	measure, compare, length, width, height, distance, perimeter, unit, centimetre (cm), metre (m), kilometre (km), ruler, metre stick, tape measure, add, plus, sum, total, altogether, subtract, take (away), minus, how many more/fewer, difference between, efficient, perimeter, equivalent
	<u>Number: Fractions</u> 2 weeks	<ul style="list-style-type: none"> • Unit and non-unit fractions • Making the whole • Tenths • Count in tenths • Tenths as decimals • Fractions on a number line • Fractions of a set of objects (1) • Fractions of a set of objects (2) • Fractions of a set of objects (3) 	<ul style="list-style-type: none"> • 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 • Recognise, find and write fractions of a discrete set of objects: unit fractions and 	part, equal parts, fraction, one whole, one half, two halves, one quarter, two quarters, three quarters, four quarters, one third, two thirds, three thirds, one tenth, numerator, denominator, unit fraction, non-unit fraction

			<p>non-unit fractions with small denominators</p> <ul style="list-style-type: none"> Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Solve problems that involve all of the above. 	
Summer	<p><u>Number: Fractions</u></p> <p>3 weeks</p>	<ul style="list-style-type: none"> Equivalent fractions (1) Equivalent fractions (2) Equivalent fractions (3) Compare fractions Order fractions Add fractions Subtract fractions 	<ul style="list-style-type: none"> Recognise and show, using diagrams, equivalent fractions with small denominators Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] Compare and order unit fractions, and fractions with the same denominators Solve problems that involve all of the above 	<p>part, equal parts, fraction, one whole, one half, two halves, one quarter, two quarters, three quarters, four quarters, one third, two thirds, three thirds, one tenth, numerator, denominator, unit fraction, non-unit fraction, equivalent, compare, order, add, subtract</p>
	<p><u>Measurement: Time</u></p> <p>3 weeks</p>	<ul style="list-style-type: none"> Months and years Hours in a day Telling the time to five minutes Telling the time to the minute Using a.m and p.m 24-hour clock Finding the duration Comparing durations Start and end times Measuring time in seconds 	<ul style="list-style-type: none"> 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 	<p>analogue, digital, 12-hour, 24-hour, hour, minute, second, o'clock, half, quarter, past, to, a.m., p.m., morning, afternoon, evening, night, midnight, day, days of the week, month, months of the year, year, leap year, how long</p>

			<p>and hours</p> <ul style="list-style-type: none"> • 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]. 	
	<p><u>Geometry: Properties of shape</u></p> <p>2 weeks</p>	<ul style="list-style-type: none"> • Turns and angles • Right angles in shapes • Compare angles • Draw accurately • Horizontal and vertical • Parallel and perpendicular • Recognise and describe 2-D shapes • Recognise and describe 3-D shapes • Make 3-D shapes 	<ul style="list-style-type: none"> • Draw 2-D shapes and make 3-D shapes using modelling materials • Recognise 3-D shapes in different orientations and describe them • 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. 	<p>draw (accurately), describe, recognise, angle, property, 2-D, flat, curved, straight, corner, side, right angle, circle, semi-circle, triangle, square, rectangle, oblong, pentagon, hexagon, octagon, quadrilateral, horizontal, vertical, parallel, perpendicular, 3-D, 3 dimensional, polyhedron, cube, cuboid, pyramid, sphere, hemisphere, cone, cylinder, prism, face, surface, edge, vertex, vertices, right angle, greater than, less than, , symmetrical, non-symmetrical</p>

	<p><u>Measurement: Mass and Capacity</u></p> <p>3 weeks</p>	<ul style="list-style-type: none"> • Measure mass (1) • Measure mass (2) • Compare mass • Add and subtract mass • Measure capacity (1) • Measure capacity (2) • Compare capacity • Add and subtract capacity 	<ul style="list-style-type: none"> • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) 	<p>Weigh, weighs, balances, heavy/light, heavier/lighter, heaviest/lightest, mass, kilogram (kg), half-kilogram, gram (g), balance, scales, volume, capacity, full, half full, empty, holds, contains, litre(l), half-litre, millilitre (ml), container, measuring, scale, division, calibration</p>
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