



Hemlington Hall Academy

Maths Medium-Term Plan & Small Steps: Year 2

Autumn Term



	Place Value	Position & Direction	Addition & Subtraction	Statistics	Assessment
	4 weeks	2 weeks	5 weeks	3 weeks	1 week
National Curriculum	<ul style="list-style-type: none"> Read and write numbers to at least 100 in numerals and in words Read and write numbers to at least 100 in numerals and in words Identify, represent and estimate numbers using different representations, including the number line Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward Recognise the place value of each digit in a 2-digit number (tens, ones) Compare and order numbers from 0 up to 100; use and = signs 	<ul style="list-style-type: none"> Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anticlockwise) 	<ul style="list-style-type: none"> Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none"> a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers adding three 1-digit numbers Compare and order numbers from 0 up to 100; use and = signs 	<ul style="list-style-type: none"> Interpret and construct simple pictograms, tally charts, block diagrams and simple tables Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity Ask and answer questions about totalling and comparing categorical data Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers 	<ul style="list-style-type: none"> Test to be made by Maths lead to match what has been taught – do not just use WR End of Term Tests Day 1 do arithmetic test Day 2 go over and unpick the arithmetic test with loads of discussion – this must be given proper time Days 3 do reasoning test Day 4 go over and unpick the reasoning test with loads of discussion – this must be given proper time
Small Steps	<ul style="list-style-type: none"> Numbers to 20 Count objects to 100 by making 10s Recognise tens and ones Use a place value chart Partition numbers to 100 Write numbers to 100 in words Flexibly partition numbers to 100 Write numbers to 100 in expanded form 10s on the number line to 100 10s and 1s on the number line to 100 Estimate numbers on a number line Compare objects Compare numbers Order objects and numbers Count in 2s, 5s and 10s Count in 3s 	<ul style="list-style-type: none"> Language of position including speed Describe movement Describe turns Describe movement and turns Shape patterns with turns 	<p>From Calculation Policy 1st NOT WR & Do CPA lessons</p> <ul style="list-style-type: none"> Bonds to 10 Fact families - addition and subtraction bonds within 20 Related facts Bonds to 100 (tens) Add and subtract 1s Add by making 10 Add three 1-digit numbers Add to the next 10 Add across a 10 Subtract across 10 Subtract from a 10 Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less Add and subtract 10s Add two 2-digit numbers (not across a 10) Add two 2-digit numbers (across a 10) Subtract two 2-digit numbers (not across a 10) Subtract two 2-digit numbers (across a 10) Mixed addition and subtraction Compare number sentences Missing number problems 	<ul style="list-style-type: none"> Make tally charts Tables Block diagrams Draw pictograms (1–1) Interpret pictograms (1–1) Step 6 Draw pictograms (2, 5 and 10) Interpret pictograms (2, 5 and 10) 	
Enrichment	Block Opener/Assembly on Careers linked to unit	Block Opener/Assembly on Careers linked to unit	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (16-20.10.23) World Statistics Day (20.10.23) WR Barvember (November)	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (11-15.12.23) Lingfield Education Trust TTRS Competition	LET Christmas Problems & Puzzles



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Spring Term



	Multiplication & Division	Fractions	Time	Assessment
	4 weeks	4 weeks	4 weeks	1 week
National Curriculum	<ul style="list-style-type: none"> Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals ($=$) signs Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers 	<ul style="list-style-type: none"> Recognise, find, name and write fractions $1/3$, $1/4$, $2/4$ and $3/4$ of a length, shape, set of objects or quantity Write simple fractions, for example $1/2$ of $6 = 3$ and recognise the equivalence of $2/4$ and $1/2$ 	<ul style="list-style-type: none"> Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clockface to show these times Know the number of minutes in an hour and the number of hours in a day Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) 	<ul style="list-style-type: none"> Test to be made by Maths lead to match what has been taught – do not just use WR End of Term Tests Day 1 do arithmetic test Day 2 go over and unpick the arithmetic test with loads of discussion – this must be given proper time Days 3 do reasoning test Day 4 go over and unpick the reasoning test with loads of discussion – this must be given proper time
Small Steps	<p style="color: orange;">From Calculation Policy 1st NOT WR & Do CPA lessons</p> <ul style="list-style-type: none"> Recognise equal groups Make equal groups Add equal groups Introduce the multiplication symbol Multiplication sentences Use arrays Make equal groups – grouping Make equal groups – sharing The 2 times-table Divide by 2 Doubling and halving Odd and even numbers 10 times-table Divide by 10 The 5 times-table Divide by 5 The 5 and 10 times-tables 	<ul style="list-style-type: none"> Introduction to parts and whole Equal and unequal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Find the whole Unit fractions Non-unit fractions Recognise the equivalence of a half and two-quarters Recognise three-quarters Find three-quarters Count in fractions up to a whole 	<ul style="list-style-type: none"> O'clock and half past Quarter past and quarter to Tell the time past the hour Tell the time to the hour Tell the time to 5 minutes Minutes in an hour Hours in a day Use scales Measure mass in grams Measure mass in kilograms and grams Equivalent masses (kilograms and Compare mass Add and subtract mass Measure capacity and volume in millilitres Measure capacity and volume in litres and millilitres Equivalent capacities and volumes (litres and millilitres) Compare capacity and volume Add and subtract capacity and volume 	
Enrichment	<p>Block Opener/Assembly on Careers linked to unit</p> <p>International Puzzle Day (29.01.24)</p>	<p>Block Opener/Assembly on Careers linked to unit</p> <p>NSPCC Number Day (02.02.24)</p> <p>Lingfield Education Trust TTRS Competition (05-09.02.24)</p>	<p>Block Opener/Assembly on Careers linked to unit</p> <p>Lingfield Education Trust TTRS Competition (11-15.03.24)</p> <p>World Maths Day (23.03.24)</p>	<p>LET Easter Problems & Puzzles</p>



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Summer Term



	Measurement (Money)	Properties of Shape	Measurement (length & height)	Measurement (mass, capacity & temp)	Assessment
	3 weeks	3 weeks	2 weeks	3 weeks	1 week
National Curriculum	<ul style="list-style-type: none"> Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change 	<ul style="list-style-type: none"> Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line Compare and sort common 2-D and 3-D shapes and everyday objects Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Identify 2-D shapes on the surface of 3-D shapes 	<ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >, < and = Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts 	<ul style="list-style-type: none"> Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Compare and order lengths, mass, volume/capacity and record the results using >, < and = 	<ul style="list-style-type: none"> Test to be made by Maths lead to match what has been taught – do not just use WR End of Term Tests Day 1 do arithmetic test Day 2 go over and unpick the arithmetic test with loads of discussion – this must be given proper time Days 3 do reasoning test Day 4 go over and unpick the reasoning test with loads of discussion – this must be given proper time
Small Steps	<ul style="list-style-type: none"> Count money – pence Count money – pounds (notes and coins) Count money – pounds and pence Choose notes and coins Make the same amount Compare amounts of money Calculate with money Make a pound Find change Two-step problems 	<ul style="list-style-type: none"> Recognise 2-D and 3-D shapes Count sides on 2-D shapes Count vertices on 2-D shapes Draw 2-D shapes Lines of symmetry on shapes Use lines of symmetry to complete shapes Sort 2-D shapes Count faces on 3-D shapes Count edges on 3-D shapes Count vertices on 3-D shapes Sort 3-D shapes Make patterns with 2-D and 3-D shapes 	<ul style="list-style-type: none"> Measure in centimetres Measure in metres Compare lengths and heights Order lengths and heights Four operations with lengths and heights 	<ul style="list-style-type: none"> Compare mass Measure in grams Measure in kilograms Four operations with mass Compare volume and capacity Measure in millilitres Measure in litres Four operations with volume and capacity Temperature 	
Enrichment	Block Opener/Assembly on Careers linked to unit	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (20-24.05.24) National Numeracy Day (15.05.24) Women in Maths Day (12.05.24) My Money Week (12-16/6/24) Allow you pupils practice on the maths orienteering course this term ready for the competition next term.	Block Opener/Assembly on Careers linked to unit Alan Turing Day (23.06.24) MP Maths Orienteering Competition for all year groups (01-05.07.24) Lingfield Education Trust TTRS Competition (01-05.07.24)	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust maths Challenge (12.07.24)	LET Summer Problems & Puzzles