Lingfield Education Trust
Maths Medium-Term Plan & Small Steps: Year 3
Autumn Term

	Place Value	Addition & Subtraction	Statistics	Multiplication & Division	Assessment
	4 weeks	4 weeks	2 weeks	4 weeks	1 week
National Curriculum	• Identify, represent and estimate numbers using different representations • Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) • Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number • Count from zero in multiples of 4, 8, 50 and 100 • Read and write numbers up to 1,000 in numerals and word • Compare and order numbers up to 1,000 s	• Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens • a 3-digit number and hundreds • Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • Estimate the answer to a calculation and use inverse operations to check answers	• Interpret and present data using bar charts, pictograms and tables • Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables	• Recall and use multiplication facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2) • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-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	• 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	• Represent numbers and know value of digits to TO • Represent numbers and know value of digits to HTO • Partition numbers to TO • Partition numbers to HTO • Number Line to HTO • 1 more, 10 more, 100 more • 1 less, 10 less, 100 less • Compare numbers to HTO • Order numbers to HTO	**From Calculation Policy 1st NOT WR & Do CPA lessons** • Concrete addition – top section of calculation policy • Pictorial addition – top section of calculation policy • Abstract – expanded method no bridging – calculation policy • Abstract – expanded with bridging – calculation policy • Abstract – expanded with bridging include varied fluency – calculation policy • Concrete subtraction – top section of calculation policy • Pictorial subtraction – top section of calculation policy • Abstract – expanded method no regrouping – calculation policy • Abstract – expanded method regrouping – calculation policy • Abstract – expanded method regrouping include varied fluency - policy • Approximation to check • Inverse operations to check	• Interpret Pictograms • Draw pictograms • Interpret bar charts • Draw bar charts • Two-way tables	**From Calculation Policy 1st NOT WR & Do CPA lessons** • Multiples of 10 • Related calculations • TO x O concrete stage from calculation policy include varied fluency • TO x O pictorial stage from calculation policy include varied fluency • TO x O abstract stage 1 from calculation policy include varied fluency • TO x O abstract stage 2 from calculation policy include varied fluency • Linking multiplication and division • TO ÷ O concrete stage • TO ÷ O pictorial stage no remainders – number line include VF • TO ÷ O pictorial stage with remainders – number line include VF • Scaling (bar models)How many ways?	
Enrichment	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)	Block Opener/Assembly on Careers linked to unit WR Barvember (November)	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (11-15.12.23)	LET Christmas Problems & Puzzles

	Length & Perimeter	Fractions	Mass & Capacity	Assessment
	3 weeks	6 weeks	3 weeks	1 week
National Curriculum	• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • Measure the perimeter of simple 2-D shapes	• Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • Compare and order unit fractions, and fractions with the same denominators • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • Recognise and show, using diagrams, equivalent fractions with small denominators • Add and subtract fractions with the same denominator within one whole • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	• Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	• 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	• Measure in m and cm • measure in cm and mm • Equivalent lengths • Compare lengths • Add lengths – use methods learnt from calculation policy • Subtract lengths - use methods learnt from calculation policy • What is perimeter & measure perimeter • Calculate perimeter – rectilinear • Calculate perimeter – compound rectilinear	**From policy for fraction calculating methods – must be school consistency!** • What are fractions - practical • What are fractions • Unit fractions • Non-unit fractions • Understand the whole • Compare and order non-unit fractions • Equivalence practical lesson • Equivalent Fractions as bar models • Add fractions – 2 days • Subtract fractions -2 days • Unit fractions of amounts • Non-unit fractions of amounts – 2 days	• Using scales • Measure mass • Equivalence in mass • Compare mass • Add and subtract mass • Measure capacity & volume • Equivalence capacity & volume • Compare capacity & volume • Add and subtract capacity & volume	
Enrichment	Block Opener/Assembly on Careers linked to unit International Puzzle Day (29.01.24)	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition (05-09.02.24) NSPCC Number Day (02.02.24)	Block Opener/Assembly on Careers linked to unit World Maths Day (23.03.24) Lingfield Education Trust TTRS Competition (11-15.03.24)	LET Easter Problems & Puzzles

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	Measurement (Money)	Measurement (Time)	Properties of Shape	Assessment
	3 weeks	4 weeks	4 weeks	1 week
National Curriculum	• Add and subtract amounts of money to give change, using both £ and p in practical contexts	• 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, am/pm, 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	• 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 • Measure the perimeter of simple 2-D shapes • Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	• 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	• Pounds • Pounds and pence • Convert pounds and pence • Add money – use methods learned from calculation policy • Subtract money and change – use methods learned from calculation policy	• Roman Numerals to 12 include simple problem in lesson • Assessment, Pause & Stretch lesson (19) • Time to 5 minutes • Time to the minute • Read digital clocks • am and pm • Hours and minutes - Start and end times • Hours and minutes – durations • Years, months and days • Days and hours • Minutes and seconds	• Sorting 2d and 3d • Edges and vertices on 2d • Name 2d shapes & properties • Symmetry on 2d shapes • Problem Solving on symmetry • Sort 2d shapes based on properties • Problem Solving 2D • Faces on 3d shapes • Naming 3d shapes • Problem Solving 3D • Edges and vertices • Comparing shapes (2d and 3d) • Making patterns with shapes	
Enrichment	Block Opener/Assembly on Careers linked to unit	Block Opener/Assembly on Careers linked to unit Lingfield Education Trust TTRS Competition National Numeracy Day (15.05.24) Women in Maths Day (12.05.24) Lingfield Education Trust TTRS Competition (20-24.05.24) My Money Week (12-16.06.24) 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) Lingfield Education Trust TTRS Competition (01-05.07.24) MP Maths Orienteering Competition for all year groups (01-05.07.24) Lingfield Education Trust maths Challenge (12.07.24)	LET Summer Problems & Puzzles