

Marton Manor
Maths Medium-Term Plan & Small Steps: Year 3
 Autumn Term



	Place Value 4 weeks	Addition & Subtraction 4 weeks	Length & Perimeter 2 weeks	Multiplication & Division 4 weeks
National Curriculum	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Add and subtract numbers mentally, including: <ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) 	<ul style="list-style-type: none"> 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
Small Steps	<ol style="list-style-type: none"> 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 PS Lesson Assessment 1: Pause & Stretch 1 more, 10 more, 100 more 1 less, 10 less, 100 less PS Lesson Assessment 2: Pause & Stretch Compare numbers to HTO Order numbers to HTO 	<ol style="list-style-type: none"> Step 1 Apply number bonds within 10 Step 2 Add and subtract 1s Step 3 Add and subtract 10s Step 4 Add and subtract 100s Step 5 Spot the pattern Step 6 Add 1s across a 10 Step 7 Add 10s across a 100 Step 8 Subtract 1s across a 10 Step 9 Subtract 10s across a 100 Step 10 Make connections Step 11 Add two numbers (no exchange) Step 12 Subtract two numbers (no exchange) Step 13 Add two numbers (across a 10) Step 14 Add two numbers (across a 100) Step 15 Subtract two numbers (across a 10) Step 16 Subtract two numbers (across a 100) Step 17 Add 2-digit and 3-digit numbers PS Lesson Assessment 7: Pause & Stretch Step 18 Subtract a 2-digit number from a 3-digit number Step 19 Complements to 100 Step 20 Estimate answers Step 21 Inverse operations Step 22 Make decisions PS Lesson Assessment 3: Pause & Stretch 	<ol style="list-style-type: none"> Step 1 Measure in metres and centimetres Step 2 Measure in millimetres Step 3 Measure in centimetres and millimetres Step 4 Metres, centimetres and millimetres Step 5 Equivalent lengths (metres and centimetres) Step 6 Equivalent lengths (centimetres and millimetres) Step 7 Compare lengths Step 8 Add lengths Step 9 Subtract lengths Step 10 What is perimeter? Step 11 Measure perimeter Step 12 Calculate perimeter PS Lesson Assessment 17: Pause & Stretch 	<ol style="list-style-type: none"> Step 1 Multiples of 10 Step 2 Related calculations Step 3 Reasoning about multiplication Step 4 Multiply a 2-digit number by a 1-digit number – no exchange Step 5 Multiply a 2-digit number by a 1-digit number – with exchange Step 6 Link multiplication and division Step 7 Divide a 2-digit number by a 1-digit number – no exchange Step 8 Divide a 2-digit number by a 1-digit number – flexible partitioning Step 9 Divide a 2-digit number by a 1-digit number – with remainders Step 10 Scaling Step 11 How many ways? PS Lesson Assessment 9: Pause & Stretch
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)

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Maths Medium-Term Plan Small Steps: Year 3
 Spring Term



	Fractions	Properties of Shape	Time
	5 weeks	2 weeks	5 weeks
National Curriculum	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 	<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 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
Small Steps	<ul style="list-style-type: none"> Step 1 Understand the denominators of unit fractions Step 2 Compare and order unit fractions Step 3 Understand the numerators of non-unit fractions Step 4 Understand the whole Step 5 Compare and order non-unit fractions Step 6 Fractions and scales Step 7 Fractions on a number line Step 8 Count in fractions on a number line Step 9 Equivalent fractions on a number line PS Lesson Assessment 14: Pause & Stretch Step 10 Equivalent fractions as bar models PS Lesson Assessment 12: Pause & Stretch 	<ul style="list-style-type: none"> Step 1 Turns and angles Step 2 Right angles Step 3 Compare angles Step 4 Measure and draw accurately Step 5 Horizontal and vertical Step 6 Parallel and perpendicular Step 7 Recognise and describe 2-D shapes Step 8 Draw polygons Step 9 Recognise and describe 3-D shapes Step 10 Make 3-D shapes PS Lesson Assessment 22 & 23: Pause & Stretch 	<ul style="list-style-type: none"> Step 1 Roman numerals to 12 PS Lesson Assessment 19: Pause & Stretch Step 2 Tell the time to 5 minutes Step 3 Tell the time to the minute Step 4 Read time on a digital clock Step 5 Use am and pm Step 6 Years, months and days Step 7 Days and hours Step 8 Hours and minutes – use start and end times Step 9 Hours and minutes - use durations Step 10 Minutes and seconds PS Lesson Assessment 20: Pause & Stretch Step 11 Units of time Step 12 Solve problems with time PS Lesson Assessment 21: Pause & Stretch
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>Lingfield Education Trust TTRS Competition (05-09.02.24)</p> <p>NSPCC Number Day (02.02.24)</p>	<p>Block Opener/Assembly on Careers linked to unit</p> <p>World Maths Day (23.03.24)</p> <p>Lingfield Education Trust TTRS Competition (11-15.03.24)</p>

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Maths Medium-Term Plan Small Steps: Year 3
 Summer Term



	Fractions	Money	Mass & Capacity	Statistics	NPVC Bridge
	3 weeks	2 weeks	2 weeks	2 weeks	2 weeks
National Curriculum	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Add and subtract amounts of money to give change, using both £ and p in practical contexts 	<ul style="list-style-type: none"> Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Use this time to revisit place value and all four operations ready for next year group
Small Steps	Step 1 Add fractions Step 2 Subtract fractions Step 3 Partition the whole Step 4 Unit fractions of a set of objects Step 5 Non-unit fractions of a set of objects Step 6 Reasoning with fractions of an amount PS Lesson Assessment 13: Pause & Stretch	Step 1 Pounds and pence Step 2 Convert pounds and pence Step 3 Add money Step 4 Subtract money Step 5 Find change PS Lesson Assessment 15: Pause & Stretch	Step 1 Use scales Step 2 Measure mass in grams Step 3 Measure mass in kilograms and grams Step 4 Equivalent masses (kilograms and grams) Step 5 Compare mass Step 6 Add and subtract mass Step 7 Measure capacity and volume in millilitres Step 8 Measure capacity and volume in litres and millilitres Step 9 Equivalent capacities and volumes (litres and millilitres) Step 10 Compare capacity and volume Step 11 Add and subtract capacity and volume PS Lesson Assessment 16: Pause & Stretch	Step 1 Interpret pictograms Step 2 Draw pictograms Step 3 Interpret bar charts Step 4 Draw bar charts Step 5 Collect and represent data Step 6 Two-way tables PS Lesson Assessment 25: Pause & Stretch	
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

