Year 3 Mathematics Yearly Overview

	04/09/23	11/09/23	18/09/23	25/09/23	02/10/23	9/10/23	16/10/23	
	Place Value Represent numbers to 100 **(NPV-2)** Partition numbers to 100 **(NPV-2)** Numbers line to 100 Hundreds (5) Represent numbers to 1000	**Place Value** Partition numbers to 1000 Flexible partitioning of numbers to 1000 Hundreds, tens and ones Find 1,10 and 100 more or less Number line to 1000 **Baseline Tests**	**Place Value** Estimate on a number line to 1000 Compare numbers to 1000 Order numbers to 1000 Count in 50s	**Addition and Subtraction** Apply number bonds within 10 Add and subtract 1s Add and subtract 10s Add and subtract 100s Spot the pattern **Assessment week**	**Addition and Subtraction** Add 1s across a 10 Add 10s across 100 Subtract 1s across a 10 Subtract 10s across 100 Make connections	**Addition and Subtraction** Add two numbers (no exchange) Subtract two numbers (no exchange) Add two numbers (across a 10) Add two numbers (across a 100)	**Addition and Subtraction** Subtract two numbers (across a 10) Subtract two numbers (across a 100) Add 2-digit and 3-digit numbers Subtract a 2-digit number from a 3-digit number	
	Vocabulary: Number; numeral, names of numbers to 100; place value column; value; partition; tens; ones; hundreds; number line; count on/up; more than; less than; compare; order;	**Vocabulary:** Names of number to 1,000; place value column; ones; tens; hundreds; thousands; more than; less than; partition	**Vocabulary:** Estimate; place value column; ones; tens; hundreds; thousands; count on; compare; greater than; less than; equal to	**Vocabulary:** Addition; add; more; subtract; less; take away; ones; tens; hundreds; pattern; number bonds; addend; sum; subtrahend; minuend;	**Vocabulary:** Addition; add; more; subtract; less; take away; ones; tens; hundreds; pattern; number bonds; addend; sum; subtrahend; minuend; boundary; place value column	**Vocabulary:** Addition; add; more; subtract; less; take away; ones; tens; hundreds; pattern; number bonds; addend; sum; subtrahend; minuend; boundary; place value column; exchange	**Vocabulary:** Addition; add; more; subtract; less; take away; ones; tens; hundreds; pattern; number bonds; addend; sum; subtrahend; minuend; boundary; place value column; exchange	
	Mental: Find the value of digits within a number; partition numbers	**Mental:** Find 1, 10 or 100 more or less than a given number; partition numbers	**Mental:** Partition numbers; order and compare numbers	**Mental:** Number bonds to 10; Find 1, 10 or 100 more or less than a given number	**Mental:** Counting back in 10s and 100s; strategies for subtraction	**Mental:** Write a word problem for a given number equation; using inverse operations	**Mental:** Write a word problem for a given number equation; using inverse operations	

	30/10/23	06/11/23	13/11/23	20/11/23	27/11/23	5/12/23	12/12/23	19/12/23 (Mon – Wed only)
Autumn 2	**Addition and Subtraction** Complements to 100 Estimate answers Inverse operations Make decisions	**Multiplication and Division** Multiplication – equal groups Using arrays Multiples of 2 Multiples of 5 and 10	**Multiplication and Division** Sharing and grouping Multiply by 3 Divide by 3 The 3 times-table	**Multiplication and Division** Multiply by 4 Divide by 4 The 4 times-tables Multiply by 8	**Multiplication and Division** Divide by 8 The 8 times-table The 2, 4 and 8 times-tables	**Multiplication and Division** Multiples of 10 Related calculations Reasoning about multiplication Multiply a 2-digit number by a 1-digit number- no exchange	**Multiplication and Division** Multiply a 2-digit number by 1 digit number – with exchange Link multiplication and division Divide a 2-digit number by a 1-digit number – no exchange Divide a 2-digit number by a 1-digit number – flexible partitioning	**Consolidation week** Assessment week or consolidation week. This can also act as a buffer for any units that overran
	Vocabulary: Number bonds; complements; inverse; place value column; add; subtract;	**Vocabulary:** multiplication; multiply; multiplied by; multiple; equal groups; repeated addition; array; lots of; groups of; commutative; sharing; share, share equally; doubling; halving	**Vocabulary:** number patterns; times table; multiplication table; multiplication fact, division fact; product; commutative law; sharing; share; equal groups;	**Vocabulary:** number patterns; times table; multiplication table; multiplication fact, division fact; product; commutative law; sharing; share; equal groups;	**Vocabulary:** number patterns; times table; multiplication table; multiplication fact, division fact; product; commutative law; sharing; share; equal groups;	**Vocabulary:** number patterns; times table; multiplication table; multiplication fact, division fact; product; commutative law; sharing; share; equal groups;	**Vocabulary:** number patterns; times table; multiplication table; multiplication fact, division fact; product; commutative law; sharing; share; equal groups;	**Vocabulary:** number patterns; times table; multiplication table; multiplication fact, division fact; product; commutative law; sharing; share; equal groups;
	Mental: Number bonds to 100; inverse operations	**Mental:** Identifying Multiples; using the inverse operation; sharing amounts/ objects equally	**Mental:** Multiplication/ division statements Multiplication facts – x table triangle.	**Mental:** Multiplication/ division statements Multiplication facts – x table triangle.	**Mental:** Multiplication/ division statements Multiplication facts – x table triangle.	**Mental:** Multiplication/ division statements Multiplication facts – x table triangle.	**Mental:** Using RUCSAC to problem solve Reasoning	**Mental:** Using RUCSAC to problem solve Reasoning

	08/01/24	15/01/24	22/01/24	29/01/24	5/02/24	12/2/24		
Spring 1	**Multiplication and Division** Divide a 2-digit number by a 1-digit number – with remainders Scaling How many ways?	**Length and Perimeter** Measure in metres and centimetres Measure in millimetres Measure in centimetres and millimetres Metres, centimetres and millimetres	**Length and Perimeter** Equivalent lengths (metres and centimetres) Equivalent lengths (centimetres and millimetres Compare lengths Add lengths	**Length and Perimeter** Subtract lengths What is perimeter? Measure perimeter Calculate perimeter	**Fractions** Compare and order non-unit fractions; Recognise and find a half; Recognise and find a quarter; Recognise and find a third;	**Fractions** Unit fractions; Non-unit fractions; Equivalence of 2/4 and 1/2; Count in fractions		
	Vocabulary: number patterns; times table; multiplication table; multiplication fact, division fact; product; commutative law; sharing; share; equal groups;	**Vocabulary:** length; mm; cm; m; equivalent; compare; convert; greater than; less than; equal to; ruler; metre stick; trundle wheel	**Vocabulary:** length; perimeter; mm; cm; m; equivalent; compare; convert; greater than; less than; equal to; ruler; metre stick; trundle wheel; rectilinear	**Vocabulary:** length; perimeter; mm; cm; m; equivalent; compare; convert; greater than; less than; equal to; ruler; metre stick; trundle wheel; rectilinear	**Vocabulary:** fraction; denominator; numerator; vinculum; half; quarter; third; equal groups; shared equally; equal parts;	**Vocabulary:** fraction; denominator; numerator; vinculum; half; quarter; unit fraction; non-unit fraction; equivalent; count on; count back		
	Mental: Using RUCSAC to problem solve Reasoning	**Mental:** Multiply and divide by 10 and 100	**Mental:** Multiply and divide by 10 and 100; mental strategies for addition	**Mental:** Multiply and divide by 10 and 100; mental strategies for addition	**Mental:** Multiply and divide by 10 and 100; mental strategies for addition	**Mental**: Mental strategies for division; halving; multiplication facts for 2, 3 and 4		

	26/02/24	6/03/24	13/03/24	2/03/24	27/03/24	
Spring 2	**Fractions** Making the whole; Tenths; Tenths as decimals; Fractions on a number line	**Mass & Capacity** Measure mass in grams and kg using scales with different intervals; Convert between g and kg; Compare mass with the same and different units	**Mass & Capacity** Add and subtract mass; Measure volume in l and ml using scales with different intervals; Convert between ml and l	**Mass and Capacity** Equivalent capacities and volumes (litres and millilitres) Compare capacity and volume Add and subtract capacity and volume	**Consolidation Week**	
	Vocabulary: Fraction; whole; denominator; numerator; vinculum; decimal; half; quarter; number line; count on; count back; tenth	**Vocabulary:** grams; kg; mass; weigh; scale; interval; heavier; lighter; balances; greater than; less than; equal to; compare; convert	**Vocabulary:** volume; capacity; l; ml; scale; interval; more than; less than; greater than; equal to; convert; compare	**Vocabulary:** volume; capacity; l; ml; scale; interval; more than; less than; greater than; equal to; convert; compare		
	Mental: Mental strategies for division; halving; multiplication facts for 2, 3 and 4	**Mental:** Dividing by 10; Counting on and back in tenths	**Mental:** Selecting appropriate units of measures; selecting appropriate equipment to measure; measuring using a ruler; multiply and divide by 10, 100 and 1,000	**Mental:** Selecting appropriate units of measures; multiply and divide by 10, 100 and 1,000; estimating measures		

	15/04/24 (Tues – Fri only)	22/04/24	29/04/24	06/05/24	13/05/24	20/05/24	
Summer 1	**Fractions** Understand the denominators of unit fractions Compare and order unit fractions Understand the numerator of non-unit fractions Understand the whole	**Fractions** Compare and order fractions with the same denominator; compare and order unit fractions with different denominators; Add and subtract fractions with the same denominator	**Money** Pounds and pence Convert pounds and pence Add money	**Money** Subtract Money Find change Mini assessment	**Time** Roman numerals to 12 Tell the time to 5 minutes Tell the time to the minute Read time on a digital clock	**Time** Use AM and PM Years, months and days Days and hours Hours and minutes – use start and end times	
	Vocabulary: Equivalent fractions Tenths Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominators One whole	**Vocabulary:** Tenths Three quarters Third Equivalence Unit fractions Non-unit fractions Numerator Denominator One whole	**Vocabulary:** Value Change Pounds Pence	**Vocabulary:** Value Change Pounds Pence	**Vocabulary:** Analogue clock Digital Roman numerals Noon Midnight Intervals of time Quarter past/to Duration	**Vocabulary:** a.m./p.m. 12-hour clock 24-hour clock Leap year Intervals of time Quarter past/to Duration	
	Mental: Division; Simplifying; Mental strategies for addition and subtraction	**Mental:** Division; Simplifying; Mental strategies for addition and subtraction	**Mental:** Division; Simplifying; Mental strategies for addition and subtraction	**Mental:** Counting money Mental strategies for adding and subtracting money	**Mental:** Telling the time; Estimating	**Mental:** Telling the time; Estimating	

	05/06/23	12/06/23	19/06/23	26/06/23	03/07/23	10/07/23	17/7/23 (Mon – Thur only)	
Summer 2	**Time** Hours and minutes – use durations Minutes and seconds Units of time Solve problems with time	**Geometry** Turns and angles Right angles Compare angles Measure and draw accurately Horizontal and vertical	**Geometry** Parallel and perpendicular Recognise and describe 2D shapes Draw polygons Recognise and describe 3D shapes Make 3D shapes	**Statistics** Interpret pictograms Draw pictograms Interpret bar charts	**Statistics** Draw bar charts Collect and represent data Two-way tables	**Consolidation** This week to act as a buffer for any units that over run or to revisit concepts children struggled with	**Consolidation** This week to act as a buffer for any units that over run or to revisit concepts children struggled with	
	Vocabulary: Analogue clock Digital Roman numerals Noon Midnight Leap year a.m./p.m. 12-hour clock 24-hour clock Intervals of time Quarter past/to Duration Minutes Seconds	**Vocabulary:** Orientations Angles Turn Right angles Right angle triangle Half turn Three quarters of a turn Greater than right angle Less than right angle Horizontal lines Vertical lines Acute angles Obtuse Angles Line of symmetry	**Vocabulary:** Perpendicular lines Parallel lines Orientations Angles Turn Right angles Right angle triangle Half turn Three quarters of a turn Greater than right angle Less than right angle Horizontal lines Vertical lines Polygon	**Vocabulary:** Bar chart Table Pictograms Tally chart Block diagram Simple table Category Sorting Totalling Comparing Horizontal Vertical	**Vocabulary:** Bar chart Two-way tables Data Table Pictograms Tally chart Block diagram Simple table Category Sorting Totalling Comparing Horizontal Vertical			

	Mental: Link between 15, 30, 45 and 60; converting seconds to minutes and minutes to hours	**Mental:** Estimating angles; mathematical vocabulary; comparing by size	**Mental:** Visualising 3D shapes from flat nets	**Mental:** Mental strategies for addition and subtraction	**Mental:** Mental strategies for addition and subtraction			