Lynnfield Primary School

Year 2 Medium-term plan

Term 1

Unit	NC objectives	Content
Unit 1: Number and Place Value	• Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward. • Recognize the place value of each digit in a two-digit number (tens, ones). • Identify, represent and estimate numbers using different representations, including the number line. • Read and write numbers to at least 100 in numerals and in words.	**Week 1: Skip counting in twos, threes, fives and tens** • Count in steps of 2, 3, and 5 from 0, and in tens from any number, forwards and backwards. • Recognize the place value of each digit in a 2-digit number (tens, ones). • Identify, represent and estimate numbers using different representations, including the number line. • Read and write numbers to at least 100 in numerals and in words.
		Week 2: Representing numbers using practical materials • Recognize the place value of each digit in a 2-digit number (tens, ones). • Identify and represent numbers using different representations. • Read and write numbers to at least 100 in numerals and in words.
Unit 2: Addition and Subtraction	• Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. • 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: a 2-digit number and ones; a 2-digit number and tens; two 2-digit numbers; adding three 1-digit numbers. • Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. • Recognize and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	**Week 3: Representing simple addition and subtraction number sentences** • Add three 1-digit numbers using concrete objects, pictorial representations, and mentally. • Add a 2-digit number and ones using concrete objects, pictorial representations, and mentally.
		Week 4: Addition and subtraction within and to 20 • Represent and use number bonds within 20. • Recall and use addition and subtraction facts to 20 fluently. • Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. • Recognize and use the inverse relationship between addition and subtraction and use this to solve missing number problems.

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Unit 3: Multiplication and Division	• Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognizing odd and even numbers. • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	**Week 5: Multiplication as repeated addition** • Recall and use multiplication facts for the 2 multiplication table, and begin practising counting in 3s. • Recall and use multiplication facts for the 5 and 10 multiplication tables. • Recognize odd and even numbers.
		Week 6: Missing number problems • Recall and use multiplication and division facts for the 2 multiplication table, and begin practising counting in threes. • Recall and use multiplication and division facts for the 5 and 10 multiplication tables. • Solve problems involving multiplication and division, using materials and arrays, including problems in contexts.
Unit 4: Addition and Subtraction	• Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. • Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. • Recognize and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	**Week 7: Reasoning about addition and subtraction in the concrete and the pictorial** • Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures.
		Week 8: Reasoning about addition and subtraction in the abstract • Recognize and use the inverse relationship between addition and subtraction and use this to solve missing number problems.
Unit 5: Fractions	• Recognize, find, name and write fractions ¼, $^2/_4$ and ¾ of a length, shape, set of objects or quantity. • Write simple fractions, for example, ½ of 6 = 3 and recognize the equivalence of $^2/_4$ and ½.	**Week 9: Recognizing and finding unit and non-unit fractions** • Recognize, find, name and write fractions ¼, ½ and ¾ of a length, shape, set of objects or quantity.
		Week 10: Representing fractions to solve problems • Write simple fractions, for example ½ of 6 = 3.
Unit 6: Measurement	• Choose and use appropriate standard units to estimate and measure length/height in any direction	**Week 11: Measuring using non-standard and standard units** • Understand why we need standard units when measuring.

	(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 =.	• Read scales to the nearest appropriate unit.
		Week 12: Comparing and ordering measurements • Compare and order lengths, mass, volume/capacity and record the results using >, < and = .

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Term 2

Unit	NC objectives	Content
Unit 7: Number and place value	• Use place value and number facts to solve problems.	**Week 1: Model the problem** • Use place value and number facts to solve problems.
Unit 8: Addition and subtraction	• Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods. • Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and ones; a 2-digit number and tens; two 2-digit numbers; adding three 1-digit numbers. • Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. • Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. • Recognize and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	**Week 2: Add pairs of multiples of 10 to 100** • Recall and use addition and subtraction facts to 20 fluently. • Derive and use related facts up to 100. • Add and subtract a 2-digit number and tens using concrete objects, pictorial representations, and mentally. • Solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures. • Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. • Recognize and use the inverse relationship between addition and subtraction and use this to solve missing number problems.
		Week 3: Use inverse relationships to solve problems • Add and subtract a 2-digit number and 10s using concrete objects, pictorial representations, and mentally. • Add and subtract two 2-digit numbers using concrete objects, pictorial representations, and mentally.
Unit 9: Measurement	• Recognize and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. • Find different combinations of coins that equal the same amounts of money. • Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.	**Week 4: Finding amounts of money and giving change** • Recognize and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. • Find different combinations of coins that equal the same amounts of money. • Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.

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Unit 10: Statistics	• 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.	**Week 5: Construct and interpret simple diagrams** • Interpret and construct simple pictograms and block diagrams. • Ask and answer simple questions by counting the number of objects in each category. • Ask and answer questions about categorical data.
Unit 11: Multiplication and division	• Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs. • Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	**Week 6: Multiplication and division fact families** • Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs. • Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.
		Week 7: Solving problems using multiplication and division, sometimes with remainders • Solve problems involving multiplication and division, using materials and arrays, including problems in contexts. • Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.
Unit 12: Fractions	• Recognize, find, name and write fractions ⅓, ¼, $^2/_4$ and ¾ of a length, shape, set of objects or quantity. • Write simple fractions, for example, ½ of 6 = 3 and recognize the equivalence of $^2/_4$ and ½.	**Week 8: Recognizing, finding and naming fractions of area, sets of objects and quantities, and introducing thirds** • Recognize, find, name and write fractions $^1/_3$, $^1/_4$, $^2/_4$ and $^3/_4$ of a length, shape, set of objects or quantity.
		Week 9: Finding fractions of quantities and learning about equivalence • Write simple fraction, for example $^1/_2$ of 6 = 3, and recognize the equivalence of $^2/_4$ and ½.
Unit 13: Geometry: properties of shapes	• Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. • Identify 2D shapes on the surface of 3D shapes, (for example, a circle on a cylinder and a triangle on a pyramid).	**Week 10: Properties of 2D and 3D shapes** • Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces. • Compare and sort common shapes and everyday objects.

	• Identify and describe the properties of 2D 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 2D shapes as the faces of 3D shapes. • Identify and describe the properties of 2D shapes, including the number of edges and line symmetry in a vertical line.

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Term 3

Unit	NC objectives	Content
Unit 14: Number and place value	• Identify, represent and estimate numbers using different representations, including the number line. • Compare and order numbers from 0 up to 100; use <, > and = signs.	**Week 1: Order and compare 2-digit numbers** • Identify, represent and estimate numbers using different representations, including the number line. • Compare numbers from 0 up to 100, using <, > and = signs. • Compare and order numbers from 0 up to 100, using <, > and = signs.
Unit 15: Measurement	• Compare and sequence intervals of time. • Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. • Know the number of minutes in an hour and the number of hours in a day.	**Week 2: Telling the time to 5 minutes** • Compare and sequence intervals of time. • Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. • Know the number of minutes in an hour and the number of hours in a day.
Unit 16: Addition and subtraction	• Solve problems with addition and subtraction: ○ using concrete objects and pictorial representations, including those involving numbers, quantities and measures ○ applying their increasing knowledge of mental and written methods. • 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: ○ a 2-digit number and ones ○ a 2-digit number and tens ○ two 2-digit numbers ○ adding three 1-digit numbers. • Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.	**Week 3: Developing addition and subtraction strategies** • Recall and use addition and subtraction facts to 20 fluently. • Derive and use related facts up to 100. • Add and subtract 2-digit numbers using concrete objects, pictorial representations, and mentally. • Solve problems with addition and subtraction by applying increasing knowledge of mental and written methods. • Recognize and use the inverse relationship between addition and subtraction and use this to check calculations.

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	• Recognize the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	
Unit 17: Multiplication and division	• Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	**Week 4: Using grouping and sharing to solve problems** • Solve problems involving multiplication and division, using materials, arrays, mental methods, and multiplication and division facts, including problems in contexts.
Unit 18: Geometry: position and direction	• Order and arrange combinations of mathematical objects in patterns and sequences. • 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 anti-clockwise).	**Week 5: Pattern, position and direction** • Order and arrange combinations of mathematical objects in patterns and sequences. • Use mathematical vocabulary to describe position, direction and movement in a straight line. • Use mathematical vocabulary to describe movement, distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).
Unit 19: Statistics	• 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.	**Week 6: Representing and interpreting data** • 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.
Unit 20: Fractions	• Recognize, find, name and write fractions ⅓, ¼, $^2/_4$ and ¾ of a length, shape, set of objects or quantity. • Write simple fractions, for example, ½ of 6 = 3 and recognize the equivalence of $^2/_4$ and ½.	**Week 7: Relationships between fractional parts and wholes** • Recognize, find, name and write fractions $^1/_3$, $^1/_4$, $^2/_4$ and $^3/_4$ of a length, set of objects or quantity. • Write simple fractions, for example ½ of 6 = 3, and recognize the equivalence of $^2/_4$ and $^1/_2$.
Unit 21: Addition and subtraction	• Solve problems with addition and subtraction: ○ using concrete objects and pictorial representations, including those involving numbers, quantities and measures	**Week 8: Problem solving using additive reasoning** • Recall and use addition and subtraction facts to 20 fluently. • Derive and use related facts up to 100.

	○ applying their increasing knowledge of mental and written methods. • 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: ○ a 2-digit number and ones ○ a 2-digit number and tens ○ two 2-digit numbers. • Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. • Recognize and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.	• Add and subtract two 2-digit numbers using concrete objects, pictorial representations, and mentally. • Solve problems with addition and subtraction by applying knowledge of mental and written methods. • Recognize and use the inverse relationship between addition and subtraction and use this to check calculations.
Unit 22: Multiplication and division	• Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.	**Week 9: Identifying equal and unequal number sentences** • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
		Week 10: Solving simple scaling problems • Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.