



LEIGH ST PETER'S CE PRIMARY SCHOOL

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PERSEVERANCE

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Maths Long Term Overview: Year 2 2021-22

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Place Value						Addition and Subtraction		Measurement: Money		Multiplication and Division	
Spring	Statistics		Geometry - Shape		Measurement: Mass, Capacity and Temperature			Fractions			Measurement: Time	Measurement: Height and Length
Summer	Geometry: Position and Direction	Addition and Subtraction	Multiplication and Division		SATS (approx.)	Statistics		Addition and Subtraction	Multiplication and Division		MOVE TO NEXT CLASS	



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Medium Term Plan: Year 2

Term	Autumn
Unit	Place Value
NC Objectives	<ul style="list-style-type: none"> Read and write numbers to at least 100 in numerals and in words Recognise 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 Compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs Use place value and number facts to solve problems. Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward
Small Steps	<ul style="list-style-type: none"> Count objects to 100 and read and write number to 100. Represent numbers to 100. Tens and ones with part whole model. Tens and ones with addition. Place value chart. Compare and order objects. Compare and order numbers. Count in 2's, 5's and 10's. Count in 3's
Key Vocabulary- Introduced at Year 2	<p>Number: two hundred, one thousand, count in threes, tally, sequence, continue, predict, rule, greater than $>$, less than $<$</p> <p>Place Value: ones, tens, hundreds, one-, two- or three-digit number, place, place value, stands for, represents, exchange, twenty-first, twenty-second ...</p> <p>Estimating: exact, exactly</p>
Reasoning and Problem-Solving Vocabulary	<p>Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ...</p> <p>explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation</p>



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Medium Term Plan: Year 2

Term	Autumn
Unit	Addition and Subtraction
NC Objectives	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> A two-digit number and ones A two-digit number and tens Two two-digit numbers Adding three one-digit numbers Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
Small Steps	<ul style="list-style-type: none"> Fact families – addition and subtraction bonds to 20. Bonds to 100. (tens) 10 more and 10 less. Add and subtract 10. Add a 2 digit and a 1 digit number – crossing the tens. Subtract a 1 digit from a 2 digits – crossing the tens. Add 2 digit numbers – not crossing tens. Add 2digit numbers – not crossing tens. Subtract a 2 digit from a 2 digit – not crossing the tens. Subtract a 2 digit from a 2 digit – crossing the tens. Bonds to 100 (tens and ones) Add 3 1 digit numbers.
Key Vocabulary- Introduced at Year 2	Addition and Subtraction: one hundred more, one hundred less, facts, tens boundary
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation



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Medium Term Plan: Year 2

Term	Autumn
Unit	Money
NC Objectives	<ul style="list-style-type: none"> Recognise 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
Small Steps	<ul style="list-style-type: none"> Count money – pence. Count money – pounds. Count money – notes and coins. Select money. Make the same amount. Compare money. Find the total. Find the difference. Find change. Two step problems.
Key Vocabulary- Introduced at Year 2	Money: bought, sold
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation



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Medium Term Plan: Year 2

Term	Autumn
Unit	Multiplication and Division
NC Objectives	<ul style="list-style-type: none"> ▪ recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers ▪ 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 ▪ solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Small Steps	<ul style="list-style-type: none"> ▪ Count money – pence. ▪ Count money – pounds. ▪ Count money – notes and coins. ▪ Select money. ▪ Make the same amount. ▪ Compare money. ▪ Find the total. ▪ Find the difference. ▪ Find change. ▪ Two step problems.
Key Vocabulary- Introduced at Year 2	Multiplication and Division: groups of, times, once, twice, three times ... ten times, repeated addition, divide, divided by, divided into, share, share equally, left, left over , one each, two each, three each ... ten each, group in pairs, threes ... tens, equal groups of, row, column, multiplication table, multiplication fact, division fact
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation



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Medium Term Plan: Year 2

Term	Spring
Unit	Statistic
NC Objectives	<ul style="list-style-type: none">interpret and construct simple pictograms, tally charts, block diagrams and simple tablesask and answer simple questions by counting the number of objects in each category and sorting the categories by quantityask and answer questions about totalling and comparing categorical data.
Small Steps	<ul style="list-style-type: none">Make tally ChartsDraw Pictograms (1-1)Interpret Pictogram (1-1)Draw Pictograms (2's, 5's and 10's)Interpret Pictograms (2's, 5's and 10's)Draw block diagrams
Key Vocabulary- Introduced at Year 2	Statistic: count, tally, sort, vote, graph, block graph, pictogram, represent, group, set, list, table, label, title, most popular, most common, least popular, least common
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation



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Medium Term Plan: Year 2

Term	Spring
Unit	Geometry: Shape
NC Objectives	<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 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, [for example, a circle on a cylinder and a triangle on a pyramid] Compare and sort common 2-D and 3-D shapes and everyday objects. Order and arrange combinations of mathematical objects in patterns and sequences
Small Steps	<ul style="list-style-type: none"> Recognise 2D shapes. Recognise 3D shapes. Count sides and vertices on 2D shapes. Lines of symmetry. Sort 2D shapes. Count faces, edges and vertices on 3D shapes. Sort 3D shapes. Make patterns with 2 D and 3 d shapes.
Key Vocabulary- Introduced at Year 2	<p>Properties of Shape: surface, line of symmetry,</p> <p>2D Shapes: rectangular, circle, circular, triangle, triangular, pentagon, hexagon, octagon</p> <p>3D Shapes: face, edge, vertex, vertices, cube, cuboid, pyramid, sphere, cone, cylinder (Introduced in Year 1)</p>
Reasoning and Problem-Solving Vocabulary	<p>Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ...</p> <p>explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation</p>



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Medium Term Plan: Year 2

Term	Spring
Unit	Measurement: Mass, capacity and temperature.
NC Objectives	<ul style="list-style-type: none"> choose and use appropriate standard units to estimate and measure 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 =
Small Steps	<ul style="list-style-type: none"> Compare mass. Measure mass in grams. Measure mass in kilograms. Compare volume. Millilitres. Litres. Temperature.
Key Vocabulary- Introduced at Year 2	<p>Measurement: measuring scale</p> <p>Weight: gram</p> <p>Capacity and Volume: millilitre, contains</p> <p>Temperature: temperature, degree</p>
Reasoning and Problem Solving Vocabulary	<p>Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ...</p> <p>explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation</p>



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Medium Term Plan: Year 2

Term	Spring
Unit	Number: Fractions
NC Objectives	<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 $1/2$.
Small Steps	<ul style="list-style-type: none"> Make equal parts. Recognise and find a half. Recognise and find a quarter. Recognise and find a third. Unit fractions. Non-unit fractions. Equivalence of a $1/2$ and $2/4$. Find $3/4$. Count in fractions.
Key Vocabulary- Introduced at Year 2	Fractions: equivalent fraction, mixed number, numerator, denominator, two halves, two quarters, three quarters, one third, two thirds, one of three equal parts, division bar
Reasoning and Problem-Solving Vocabulary	<p>Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ...</p> <p>explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation</p>



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Medium Term Plan: Year 2

Term	Spring
Unit	Measurement: Time
NC Objectives	<ul style="list-style-type: none">Compare and sequence intervals of timeTell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these timesKnow the number of minutes in an hour and the number of hours in a day.
Small Steps	<ul style="list-style-type: none">O'clock and half past.Quarter past and quarter to.Telling the time to 5 minutes.Hours and days.Finding and comparing durations of time.
Key Vocabulary- Introduced at Year 2	Time: fortnight , 5, 10, 15 ... minutes past, digital/analogue clock/watch, times, seconds
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation



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Medium Term Plan: Year 2

Term	Spring
Unit	Measurement: Height and Length
NC Objectives	<ul style="list-style-type: none">Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm) to the nearest appropriate unit, using rulers.Compare and order lengths and record the results using $>$, $<$ and $=$
Small Steps	<ul style="list-style-type: none">Measure length (cm)Measure length (m)Compare and order length.Four operations with length.
Key Vocabulary- Introduced at Year 2	<p>Measurement: measuring scale</p> <p>Height and Length: further, furthest, tape measure</p>
Reasoning and Problem-Solving Vocabulary	<p>Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ...</p> <p>explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation</p>



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Medium Term Plan: Year 2

Term	Summer
Unit	Geometry: Position and Direction
NC Objectives	<ul style="list-style-type: none">Order and arrange combinations of mathematical objects in patterns and sequencesUse 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).
Small Steps	<ul style="list-style-type: none">Describing movementDescribing turns.Combining movements and turns.Making patterns with shapes.
Key Vocabulary- Introduced at Year 2	Position and Direction: route, higher, lower, clockwise, anticlockwise, right angle, straight line
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation



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Medium Term Plan: Year 2

Term	Summer
Unit	Addition and Subtraction
NC Objectives	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> A two-digit number and ones A two-digit number and tens Two two-digit numbers Adding three one-digit numbers Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
Small Steps	<ul style="list-style-type: none"> Fact families – addition and subtraction bonds to 20. Bonds to 100. (tens) 10 more and 10 less. Add and subtract 10. Add a 2 digit and a 1 digit number – crossing the tens. Subtract a 1 digit from a 2 digits – crossing the tens. Add 2 digit numbers – not crossing tens. Add 2digit numbers – not crossing tens. Subtract a 2 digit from a 2 digit – not crossing the tens. Subtract a 2 digit from a 2 digit – crossing the tens. Bonds to 100 (tens and ones) Add 3 1 digit numbers.
Key Vocabulary- Introduced at Year 2	Addition and Subtraction: one hundred more, one hundred less, facts, tens boundary
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation



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Medium Term Plan: Year 2

Term	Summer
Unit	Multiplication and Division
NC Objectives	<ul style="list-style-type: none"> Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers 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 Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Small Steps	<ul style="list-style-type: none"> Count money – pence. Count money – pounds. Count money – notes and coins. Select money. Make the same amount. Compare money. Find the total. Find the difference. Find change. Two step problems.
Key Vocabulary- Introduced at Year 2	Multiplication and Division: groups of, times, once, twice, three times ... ten times, repeated addition, divide, divided by, divided into, share, share equally, left, left over, one each, two each, three each ... ten each, group in pairs, threes ... tens, equal groups of, row, column, multiplication table, multiplication fact, division fact
Reasoning and Problem-Solving Vocabulary	<p>Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ...</p> <p>explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation</p>



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Medium Term Plan: Year 2

Term	Summer
Unit	Statistic
NC Objectives	<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. ▪
Small Steps	<ul style="list-style-type: none"> ▪ Make tally Charts ▪ Draw Pictograms (1-1) ▪ Interpret Pictogram (1-1) ▪ Draw Pictograms (2's, 5's and 10's) ▪ Interpret Pictograms (2's, 5's and 10's) ▪ Draw block diagrams
Key Vocabulary- Introduced at Year 2	Statistic: count, tally, sort, vote, graph, block graph, pictogram, represent, group, set, list, table, label, title, most popular, most common, least popular, least common
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation



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Medium Term Plan: Year 2

Term	Summer
Unit	Addition and Subtraction
NC Objectives	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> A two-digit number and ones A two-digit number and tens Two two-digit numbers Adding three one-digit numbers Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.
Small Steps	<ul style="list-style-type: none"> Fact families – addition and subtraction bonds to 20. Bonds to 100. (tens) 10 more and 10 less. Add and subtract 10. Add a 2 digit and a 1 digit number – crossing the tens. Subtract a 1 digit from a 2 digits – crossing the tens. Add 2 digit numbers – not crossing tens. Add 2digit numbers – not crossing tens. Subtract a 2 digit from a 2 digit – not crossing the tens. Subtract a 2 digit from a 2 digit – crossing the tens. Bonds to 100 (tens and ones) Add 3 1 digit numbers.
Key Vocabulary- Introduced at Year 2	Addition and Subtraction: one hundred more, one hundred less, facts, tens boundary
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation



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Medium Term Plan: Year 2

Term	Summer
Unit	Multiplication and Division
NC Objectives	<ul style="list-style-type: none"> recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers 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 solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.
Small Steps	<ul style="list-style-type: none"> Count money – pence. Count money – pounds. Count money – notes and coins. Select money. Make the same amount. Compare money. Find the total. Find the difference. Find change. Two step problems.
Key Vocabulary- Introduced at Year 2	Multiplication and Division: groups of, times, once, twice, three times ... ten times, repeated addition, divide, divided by, divided into, share, share equally, left, left over, one each, two each, three each ... ten each, group in pairs, threes ... tens, equal groups of, row, column, multiplication table, multiplication fact, division fact
Reasoning and Problem-Solving Vocabulary	Pattern, puzzle, problem, problem solving, mental, mentally, what could we try next?, did you work it out?, show how you ... explain your thinking, explain your method, describe the pattern, describe the rule, investigate, recognise, describe, draw, compare, sort, mental calculation, written calculation