



## LMPS Maths Termly Overview 2020 - 2021

### Reception

Mathematics involves providing children with opportunities to develop and improve their skills in counting, understanding and using numbers, calculating simple addition and subtraction problems; and to describe shapes, spaces, and measure

| Autumn Term   | Spring Term   | Summer Term  |
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| <p><b>Unit 1. Numbers to 5</b> (15 Lessons)</p> <p><b>ELG 2 Communication and language: Understanding</b></p> <ul style="list-style-type: none"> <li>- answer 'how' and 'why' questions about their experiences and in response to stories or events</li> </ul> <p><b>ELG 11 Mathematics: Numbers</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> </ul> <p><b>Week 1: Counting to 1, 2 and 3</b></p> <p>This week, children will start to count to 3 and back from 3. They will link the skill of counting 3 concrete objects (multilink cubes) to the pictorial representation of 3, and then to the abstract numerals 1, 2 and 3.</p> <p><b>Week 2: Counting to 4</b></p> <p>This week, children will build on their knowledge of counting to 3, by counting to 4. They will link the skill of counting 4 concrete objects to the pictorial representation of 4, and then to the abstract numeral 4. The five frame is introduced for the first time</p> <p><b>Week 3: Counting to 5</b></p> <p>This week, children will learn to count to 5 using the counting principles they developed in Week 1 and Week 2. Children will represent numbers up to 5 in</p> | <p><b>Unit 8. Comparing numbers within 10</b> (5 Lessons)</p> <p><b>ELG 4 Physical development: Moving and handling</b></p> <ul style="list-style-type: none"> <li>- show good control and co-ordination in large and small movements</li> <li>- handle equipment and tools effectively, including pencils for writing</li> </ul> <p><b>ELG 11 Mathematics: Numbers</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> </ul> <p><b>ELG 12 Mathematics: Shape, space and measures</b></p> <ul style="list-style-type: none"> <li>- use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems</li> </ul> <p><b>ELG 14 Understanding the world: The world</b></p> <ul style="list-style-type: none"> <li>- know about similarities and differences in relation to places, objects, materials and living things</li> </ul> <p><b>Week 1: Comparing groups up to 10</b></p> <p>This week, children will compare numbers up to 10. They will focus on comparing groups of objects where the objects differ in size.</p> <p><b>Unit 9. Addition to 10</b> (5 Lessons)</p> | <p><b>Unit 14. Numbers to 20</b> (5 Lessons)</p> <p><b>ELG 11 Mathematics: Numbers</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> </ul> <p><b>Week 1: Counting to and from 20</b></p> <p>This week, children will focus on counting forwards and backwards to and from 20. Children will explore one more and one less than numbers to 20, as well as comparing numbers. During this unit, children will also have the opportunity to represent numbers within 20.</p> <p><b>Unit 15. Numerical patterns</b> (15 Lessons)</p> <p><b>ELG 8 Personal, social and emotional development: Making relationships</b></p> <ul style="list-style-type: none"> <li>- play co-operatively, taking turns with others</li> </ul> <p><b>ELG 11 Mathematics: Numbers</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> <li>- solve problems, including doubling, halving and sharing</li> </ul> <p><b>ELG 12 Mathematics: Shape, space and measures</b></p> <ul style="list-style-type: none"> <li>- recognise, create and describe patterns</li> </ul> |



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| <p>concrete and pictorial ways as well as linking an amount to the numerals 1, 2, 3, 4 and 5.</p> <p><b>Unit 2. Sorting</b> (5 Lessons)</p> <p><b>ELG 11 Mathematics: Numbers</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> </ul> <p><b>ELG 12 Mathematics: Shape, space and measures</b></p> <ul style="list-style-type: none"> <li>- explore characteristics of everyday objects and shapes and use mathematical language to describe them</li> </ul> <p><b>ELG 14 Understanding the world: The world</b></p> <ul style="list-style-type: none"> <li>- know about similarities and differences in relation to places, objects, materials and living things</li> </ul> <p><b>Week 4: Sorting into 2 groups</b></p> <p>This week, children will focus on similarities and differences in sets of objects found in the classroom. Children will sort objects into two groups based on size, colour and shape. They will discover that groups can be sorted in different ways and into more than two groups.</p> <p><b>Unit 3. Comparing groups within 5</b> (10 Lessons)</p> <p><b>ELG 11 Mathematics: Number</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> </ul> <p><b>Week 5: Comparing quantities of identical objects</b></p> | <p><b>ELG 11 Mathematics: Numbers</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> <li>- using quantities and objects, add and subtract 2 single-digit numbers and count on or back to find the answer</li> </ul> <p><b>ELG 14 Understanding the world: The world</b></p> <ul style="list-style-type: none"> <li>- know about similarities and differences in relation to places, objects, materials and living things</li> </ul> <p><b>Week 2: Combining 2 groups to find the whole</b></p> <p>This week, children will develop confidence in using the <b>part-whole model</b>, being able to identify the whole and the parts in different orientations and understanding that the combined parts make the whole. The key vocabulary <b>altogether</b> is introduced as a term to describe the combined parts</p> <p><b>Unit 10. Number bonds to 10</b> (10 Lessons)</p> <p><b>ELG 4 Physical development: Moving and handling</b></p> <ul style="list-style-type: none"> <li>- show good control and co-ordination in large and small movements</li> <li>- handle equipment and tools effectively, including pencils for writing</li> </ul> <p><b>ELG 11 Mathematics: Numbers</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> <li>- using quantities and objects, add and subtract 2 single-digit numbers and count on or back to find the answer</li> </ul> | <p><b>Week 2: Doubling</b></p> <p>This week, children will explore what is meant by <b>doubling</b> and will learn to recognise and represent doubles to double 5 in a range of contexts.</p> <p><b>Week 3: Halving and sharing</b></p> <p>This week, children will focus on halving quantities by sharing into two equal groups. They will make links to the fact that <b>halving</b> is the <b>opposite</b>, or inverse, of <b>doubling</b>.</p> <p><b>Week 4: Odds and evens</b></p> <p>This week, children will continue their work on numerical patterns to explore odd and even numbers in familiar contexts. They will use their understanding of equal groups to identify <b>odd and even</b> numbers.</p> <p><b>Unit 16. Measure</b> (15 Lessons)</p> <p><b>ELG 4 Physical development: Moving and handling</b></p> <ul style="list-style-type: none"> <li>- show good control and co-ordination in large and small movements</li> <li>- handle equipment and tools effectively, including pencils for writing</li> </ul> <p><b>ELG 11 Mathematics: Numbers</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> </ul> <p><b>ELG 12 Mathematics: Shape, space and measures</b></p> <ul style="list-style-type: none"> <li>- use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems</li> <li>- explore characteristics of everyday objects and shapes and use mathematical language to describe them</li> </ul> |
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| <p>This week, children will compare groups of identical objects using the language <b>more, fewer and less</b>. Identical objects are compared in different orientations, and include equal-quantity groups to prompt more creative thinking about how identical groups can be compared.</p> <p><b><u>Week 6: Comparing quantities of non-identical objects</u></b></p> <p>This week, children will compare two groups of non-identical objects saying which group of objects has <b>more, fewer or the same</b>. Children will build on learning from the previous week, matching objects to compare quantities, but focusing on matching non-identical objects to draw out the misconception that objects must be the same to compare them.</p> <p><b><u>Unit 4. Change within 5</u></b> (10 Lessons)</p> <p><b>ELG 11 Mathematics: Numbers</b></p> <ul style="list-style-type: none"> <li>- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number</li> </ul> <p><b><u>Week 7: One more</u></b></p> <p>This week, children will learn about one more within 5. They will use role play and <b>first, then, now story structures</b> to explore adding one more. Children will learn to recognise that the next number they count is <b>one more than</b> the previous number.</p> <p><b><u>Week 8: One less</u></b></p> <p>This week, children will learn about finding one less than a given number within 5 using concrete objects and pictures to help them. They will use role play and <b>first, then, now stories</b> to explore <b>one less</b>. Crossing</p> | <p><b><u>Week 3: Using a ten frame</u></b></p> <p>This week, children will explore number bonds to 10 using a variety of representations. Children will progress from seeing concrete representations to pictorial representations (<b>counters</b>), finally using counters on a <b>ten frame</b> to show all number bonds to 10. They will answer ‘<b>how many altogether</b>’ and ‘<b>how many more</b>’ questions.</p> <p><b><u>Week 4: The part-whole model to 10</u></b></p> <p>This week, children will explore all the different ways to make 10 on a <b>part-whole model</b>, and gain confidence with the concept and vocabulary of <b>parts and wholes</b>: that the whole can be made up of two or more parts, and that the parts are combined to make the whole.</p> <p><b><u>Unit 11. Space and shape</u></b> (15 Lessons)</p> <p><b>ELG 4 Physical development: Moving and handling</b></p> <ul style="list-style-type: none"> <li>- move confidently in a range of ways, safely negotiating space</li> </ul> <p><b>ELG 12 Mathematics: Shape, space and measures</b></p> <ul style="list-style-type: none"> <li>- use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems</li> <li>- explore characteristics of everyday objects and shapes and use mathematical language to describe them</li> </ul> <p><b>ELG 14 Understanding the world: The world</b></p> <ul style="list-style-type: none"> <li>- know about similarities and differences in relation to places, objects, materials and living things</li> </ul> | <p><b><u>Week 5: Weight</u></b></p> <p>This week, children will be introduced to the concept of weight. They may already have some previous understanding of the meaning of <b>heavy and light</b> objects. They will begin to compare two items and learn how <b>balance scales</b> show which item is <b>lighter or heavier</b>.</p> <p><b><u>Week 6: Volume and capacity</u></b></p> <p>This week, children will use simple everyday language to compare volume and capacity using the terms <b>full, empty, nearly full and nearly empty</b> in the context of liquids (<b>water</b>) and solids (<b>sand</b>).</p> <p><b><u>Week 7: Length, height and distance</u></b></p> <p>This week, children will be introduced to length, height and distance. They use the words <b>longer, shorter and taller</b> to compare length. Children will focus on lining up objects to compare them and begin to explore non-standard units of measurement.</p> |
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| <p>out, not rubbing out, should be used when representing one less pictorially.</p> <p><b>Unit 5. Time</b> (5 Lessons)</p> <p><b>ELG 3 Communication and language: Speaking</b></p> <ul style="list-style-type: none"> <li>- develop their own narratives and explanations by connecting ideas or events</li> </ul> <p><b>ELG 12 Mathematics: Shape, space and measures</b></p> <ul style="list-style-type: none"> <li>- use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems</li> <li>- recognise, create and describe patterns</li> </ul> <p><b>ELG 13 Understanding the world: People and communities</b></p> <ul style="list-style-type: none"> <li>- talk about past and present events in their own lives and in the lives of family members</li> <li>- know about similarities and differences between themselves and others, and among families, communities and traditions</li> </ul> <p><b>Week 9: My day</b></p> <p>This week, children will be introduced to the concept of times of the day and the order of events in a day. They will begin to order familiar events using clues from pictures and will be introduced to the idea that the <b>clock</b> tells the time of the day, without having to read the clock.</p> <p><b>Unit 6. Number bonds within 5</b> (5 Lessons)</p> <p><b>ELG 12 Mathematics: Shape, space and measures</b></p> | <ul style="list-style-type: none"> <li>- talk about the features of their own immediate environment and how environments might vary from one another</li> </ul> <p><b>ELG 15 Understanding the world: Technology</b></p> <ul style="list-style-type: none"> <li>- select and use technology for particular purposes</li> </ul> <p><b>Week 5: Spatial awareness</b></p> <p>This week, children will develop their <b>vocabulary to describe the position of objects</b>. They will look at items from different viewpoints and draw representations of the items they see.</p> <p><b>Week 6: 3D shapes</b></p> <p>This week, children will focus on properties of <b>3D shapes</b> through hands on exploration and play</p> <p><b>Week 7: 2D shapes</b></p> <p>This week, children are introduced to the names of 2D shapes and some of the <b>words to describe their properties</b>. Children will see common <b>2D shapes</b> shown in different orientations and be encouraged to look for examples of 2D shapes in the world around them.</p> <p><b>Unit 12. Exploring patterns</b> (10 Lessons)</p> <p><b>ELG 12 Mathematics: Shape, space and measures</b></p> <ul style="list-style-type: none"> <li>- recognise, create and describe patterns</li> <li>- explore characteristics of everyday objects and shapes and use mathematical language to describe them</li> </ul> <p><b>Week 8: Making patterns</b></p> <p>This week, children will focus on recognising, continuing and building simple patterns. Children will have the opportunity to learn about AB patterns</p> |  |
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- using quantities and objects, add and subtract 2 single-digit numbers and count on or back to find the answer

**ELG 11 Mathematics: Numbers**

- explore characteristics of everyday objects and shapes and use mathematical language to describe them

**Week 10: Introducing the part-whole model**

This week, children will consolidate and build on learning from Unit 2: Sorting. They will be introduced to the vocabulary of **whole and part**, and practise the concept of breaking a whole into parts using a **part-whole model**.

**Unit 7. Numbers to 10** (10 Lessons)

**ELG 4 Physical development: Moving and handling**

- handle equipment and tools effectively, including pencils for writing

**ELG 11 Mathematics: Numbers**

- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number

**Week 11: Counting to 6, 7 and 8**

This week, children learn to count up to 8 objects and show them using concrete representations, including the **ten frame**. Children are introduced to **counters** as a representation of an amount for the first time.

**Week 12: Counting to 9 and 10**

This week, children will learn to count to 10. They will be introduced to the numbers 9 and 10 and use the **ten frame** to scaffold their counting to 10.

specifically. They will be encouraged to discover that patterns can be created using various shapes, colours, sizes, actions and sounds.

**Week 9: Exploring more complex patterns**

This week, children will focus on recognising, continuing and building more complex patterns. Children will have the opportunity to learn about ABB and AAB patterns specifically. They will be encouraged to discover that patterns can be formed using various shapes, colours, sizes, actions and sounds.

**Unit 13. Counting on and counting back** (10 Lessons)

**ELG 11 Mathematics: Numbers**

- count reliably with numbers from 1 to 20, place them in order and say which number is one more or one less than a given number
- using quantities and objects, add and subtract 2 single-digit numbers and count on or back to find the answer

**Week 10: Adding by counting on**

This week, children will learn how to count on from a given number in order to add. Children will use the **first, then, now structure** to identify what number they are **counting on** from, and **how many** they are counting on.

**Week 11: Taking away by counting back**

This week, children will learn how to count back from a given number in order to subtract. Children will use the **first, then, now structure** in order to identify what number they are **counting back** from, and **how many** they are counting back.

LADY MARGARET PRIMARY SCHOOL

Meaningful Learning opportunities and strong Motivation leads to rapid Progress and high levels of Success.

