## The Outcome - We are Mathematicians

At Lime Tree, we deliver a skills-based curriculum, in which the basic skills and knowledge required to progress learning are of paramount importance to underpin all learning.

We aim to develop confident mathematicians who are able to reason and discuss problems independently and to help their peers. Mathematicians from Lime Tree will have strong basic skills that they can use to apply to more complex problems. Through maths, we encourage children to approach problems in a curious and flexible way and think critically about the world we live in and how maths can be useful in their future lives and careers.

All children are immersed in hands-on practical experiences in problem solving. They learn to ask questions, work collaboratively, apply basic skills and solve reasoning problems, improving ways of thinking mathematically from Early Years to Year 6.

| Threads |  |
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| Thinkers |  |
| Creative, imaginative, structured and |  |
| adaptable |  |$\quad$| Learners |
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| Skilled, knowledgeable, independent and |
| resilient |$\quad$| World aware, community spirited, caring |
| :---: |
| and healthy |

## Starting Points - Area of Study

Lime Tree
Primary Academy

| EYFS <br> (Tree Tots 1) |  |  | What's out there? <br> Number: Names <br> Geometry: Shape |  | What changes? <br> Number: First and last, <br> Measurement: Comparing <br> Geometry: Shape and pattern |  |
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| EYFS <br> (Tree Tots 2) | What makes me me? <br> Number: Number names <br> Geometry: Familiarisation | What makes me me? <br> Number: Counting one, grouping objects <br> Geometry: Exploring objects, name simple shapes <br> Measurement: Daily routine | Where in the world? <br> Number: Different quantities <br> Measurement: <br> Quantities <br> Geometry: Patterns | What's out there? <br> Number: Groups of 1 and 2 <br> Geometry: <br> Recognising shapes and objects. Positional language. | What changes? <br> Number: Counting and groups of 1,2 and 3 <br> Measurement: Big and little, ordering objects <br> Geometry: Location and pattern | What changes? <br> Number: Counting with fingers, groups of $1,2,3$ and 4 <br> Geometry: Sorting objects <br> Measurement: Tall and short |

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| EYFS <br> (Nursery) | What makes me me? <br> Number: Counting, recite numbers to 10 <br> Geometry: Sorting objects <br> Number: Comparing quantities | What makes me me? <br> Number: Comparing quantities <br> Number: Counting in correspondence to 2, cardinal principle <br> Measurement: Order events of the day <br> Geometry: Big and small, simple shapes, patterns | Where in the world? <br> Number: Counting in correspondence to 3, cardinal principle and subitise to 3 <br> Geometry: Properties of shapes <br> Measurement: Sequence events <br> Measurement: Tall, long, short. <br> Number: One more than one less than | What's out there? <br> Number: Counting in correspondence to 4, cardinal principle and subitise to 4 <br> Number: Rote count to 10 <br> Number: Experiment with symbols and marks <br> Geometry: Positional language and 3D shape <br> Measurement: Describing weight | What changes? <br> Number: Counting in correspondence to 5, cardinal principle and subitise to 5 <br> Number: Link numerals to amounts <br> Measurement: Describe capacity <br> Number: Solve real world problems to 5 | What changes? <br> Measurement: <br> Explore time and sequencing events <br> Number: Solve real world problems to 5 <br> Measurement: <br> Comparing lengths <br> Geometry: Routes and locations |
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| EYFS (Reception) | Getting to know you <br> Number: Exploring number through playing <br> Just like me! <br> Number: Compare and sort <br> Measurement - size, mass and pattern <br> It's Me, 1, 2, 3! | It's Me, 1, 2, 3! <br> Number: 1, 2 and 3 <br> Geometry: Shape and positional language <br> Light and Dark <br> Number: <br> Representing <br> number to 5 | Alive in 5! <br> Number: To 5 <br> Measurement: Mass and capacity <br> Growing 6, 7, 8 <br> Number: 6,7 and 8 and addition <br> Measurement: length, height and time | Building 9 and 10 <br> Number: number bonds <br> Geometry: 3D shape and pattern <br> Consolidation | To 20 and Beyond! <br> Number: numbers beyond ten and counting patterns <br> Geometry: Shape patterns and arrangements <br> Measurement: First, then, now <br> Number: adding and taking away | Find My Pattern <br> Number: doubling, sharing, even and and odd <br> Geometry: Shape, visualise and build replicate. Positional language that relates to real life <br> On The Move! |

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|  | Number: 1,2 and 3 <br> Geometry: Shape and positional language | Number: 1 more than 1 less than <br> Geometry: Shape <br> Measurement: Time |  |  | Geometry: Shape composing and decomposing | Number: patterns and relationships <br> Geometry: Mapping and spatial reasoning - making maps |
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| Year 1 | Number: Place Value (within 10) <br> Number: Addition and Subtraction (within 10) <br> KIRF: Read and write numbers $1-10$ in numerals and words | Number: Addition and Subtraction (within 10) <br> Geometry: Shape <br> Consolidation <br> KIRF: Number bonds to 5 | Number: Place value (within 20) <br> Number: Addition and Subtraction (within 20) <br> Number: Place <br> Value (within 50) <br> KIRF: Number bonds to 10 | Measurement: Length and Height <br> Measurement: Mass and Volume <br> KIRF: Recognise numbers to 50 | Number: <br> Multiplication and Division <br> Number: Fractions <br> Geometry: Position and Direction <br> KIRF: Doubles and halves to 10 | Number: Place <br> Value (within 100) <br> Measurement: <br> Money <br> Measurement: Time <br> Consolidation <br> KIRF: Read and write numbers 11-20 in numerals and words |
| Year 2 | Number: Place Value <br> Number: Addition and Subtraction <br> KIRF: Number bonds to 20 | Number: Addition and Subtraction <br> Geometry: Shape <br> KIRF: Doubles and halves to 20 | Measurement: <br> Money <br> Number: <br> Multiplication and <br> Division <br> KIRF: Multiplication and division facts for the 2 times table | Measurement: Length and height <br> Measurement: Mass, capacity and temperature <br> Geometry: Properties of Shape <br> KIRF: Multiplication and division facts for the 10 times table | Number: Fractions Measurement: Time Statistics <br> KIRF: I can count, read and write numbers to 100 in numerals | Geometry: Position and Direction <br> Consolidation <br> KIRF: I know multiplication and division facts for the 5 times table |

## Lime Tree

Primary Academy

| Year 3 | Number: Place Value <br> Number: Addition and Subtraction <br> KIRF: Number facts for numbers to 20 (doubles, halves, bonds) | Number: Addition and Subtraction <br> Number: <br> Multiplication and Division A <br> KIRF: Number bonds to 100 | Number: <br> Multiplication and Division B <br> Measurement: <br> Length and perimeter <br> KIRF: Multiplication and division facts for the 3 times table | Number: <br> Fractions A <br> Measurement: Mass and capacity <br> KIRF: Multiplication and division facts for the 4 times table | Number: Fractions B <br> Measurement: <br> Money <br> Measurement: Time <br> KIRF: Count in multiples of 50 and 100 | Geometry: Shape <br> Statistics <br> Consolidation <br> KIRF: Multiplication and division facts for the 8 times table |
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| Year 4 | Number: Place Value <br> Number: Addition and Subtraction <br> KIRF: Number bonds to 100 | Measurement: Area <br> Number: <br> Multiplication and <br> Division A <br> Consolidation <br> KIRF: Count in multiples of 1000 and 25 | Number: <br> Multiplication and Division B <br> Measurement: Length and perimeter <br> Number: Fractions <br> KIRF: Multiplication and division facts for the 6 and 7 times table | Number: Fractions <br> Number: Decimals A <br> KIRF: Multiplication and division facts for the 9, 11 and 12 times table | Number: Decimals B <br> Measurement: <br> Money <br> Measurement: Time <br> Consolidation <br> KIRF: Multiply and divide single digits by 10 and 100 | Geometry: Shape <br> Statistics <br> Geometry: Position and Direction <br> KIRF: Recognise decimal equivalents of fractions |
| Year 5 | Number: Place Value <br> Number: Addition and Subtraction <br> Number: <br> Multiplication and division A <br> KIRF: Find factor pairs of any number | Number: <br> Multiplication and division A <br> Number: Fractions A <br> KIRF: Prime numbers up to 50 | Number: <br> Multiplication and Division B <br> Number: Fractions B <br> KIRF: Multiplication and division facts for all times tables up to $12 \times 12$ | Number: Decimals and Percentages <br> Measurement: <br> Perimeter and area <br> Statistics <br> KIRF: Recall square numbers up to 12 squared and their square roots | Geometry: Shape <br> Geometry: Position and direction <br> Number: Decimals <br> KIRF: Count forwards or backwards in steps of powers of 10 for any given number up to $1,000,000$ | Number: Negative numbers <br> Measurement: Converting Units <br> Measurement: Volume <br> KIRF: Recognise equivalent fractions and decimals. |


| Year 6 | Number: Place Value <br> Number: Addition, Subtraction, Multiplication and Division <br> KIRF: Identify common factors of a pair of numbers | Number: Fractions A <br> Number: Fractions B <br> Measurement: Converting units <br> KIRF: I know the first 5 cube numbers | Number: Ratio <br> Number: Algebra <br> Number: Decimals <br> KIRF: Know doubles and halves of 2-digit decimals (e.g half of 3.6 ) | Number: Fractions, decimals and percentages <br> Measurement: Area, perimeter and volume <br> Statistics <br> KIRF: Derive multiplication and division facts using decimal numbers (e.g. $8 \times 0.7=$ 5.6) | Geometry: Shape <br> Geometry: Position and direction <br> Themed problems <br> Problem Solving <br> SATs consolidation <br> KIRF: Know common fraction, decimal and percentage equivalents | KIRF: Find a fraction of an amount |
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