



## Mathematics (M)

### Area Overview

At St Keyna, we believe mathematics should be meaningful, practical and enjoyable. Children develop mathematical understanding through everyday experiences, exploration, play and high-quality adult interactions. We aim to build confident mathematicians who are curious, resilient and able to use mathematical thinking to solve problems. Our curriculum provides rich opportunities for children to explore number, pattern, shape, space and measure through practical experiences. Mathematical language is modelled throughout the day, enabling children to make connections and apply their learning across all areas of the curriculum.

Progression begins in Nursery 1 by developing children's awareness of quantity, pattern and mathematical language through play. In Nursery 2, children develop a deeper understanding of number, counting and mathematical relationships while exploring patterns and measures in greater depth. By the end of Reception, children have secure number knowledge and can recognise, explain and apply mathematical concepts confidently in a range of contexts.

### Why this area matters?

Mathematics helps children make sense of the world around them. It develops logical thinking, reasoning, problem-solving and the confidence to apply mathematical ideas in everyday life.

High-quality mathematical experiences help children to:

- Develop confidence with numbers.
- Build secure counting skills.
- Understand quantity and numerical relationships.
- Recognise and create patterns.
- Develop reasoning and problem-solving skills.
- Use mathematical language accurately.
- Explore shape, space and measure.
- Become confident mathematicians who are ready for Key Stage One.

### Supporting Mathematics at home:

Count things in everyday life - count stairs, toys, pieces of fruit or cars.

Practise number recognition - look for numbers on doors, buses, clocks and calendars.

Play simple board games - games with dice help children recognise numbers, count on and take turns.

Talk about shapes and patterns - spot circles, squares, triangles and repeating patterns around the home.

Compare quantities - use words such as *more*, *less*, *fewer*, *same* and *equal*.

Sort and match objects - group socks, buttons, toys or food by colour, size or shape.

Use maths in cooking and shopping - count ingredients, talk about amounts and compare prices.

Sing counting songs and rhymes - these help children learn counting Talk about time and routines - discuss morning, lunchtime, bedtime and days of the week.

### Vocabulary Progression

| Nursery Year 1 |           | Nursery Year 2 |           | Reception   |           |
|----------------|-----------|----------------|-----------|-------------|-----------|
| one            | circle    | number         | rectangle | subitise    | pattern   |
| two            | square    | numeral        | triangle  | compose     | estimate  |
| three          | up        | count          | cube      | partition   | solve     |
| more           | down      | how many       | position  | number bond | reason    |
| less           | next      | equal          | estimate  | double      | calculate |
| big            | same      | altogether     | shorter   | halve       | fewer     |
| small          | different | pattern        | heavier   | odd         | equal     |
| full           | count     | repeat         | longer    | even        | greater   |
| empty          | shape     | compare        | lighter   | compare     | sequence  |



| Number                                                                                                                                                                                                                         |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nursery Year 1                                                                                                                                                                                                                 | Nursery Year 2                                                                                                                                                                                                                       | Reception Early Learning Goals                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• Explores numbers through songs, rhymes and play.</li> <li>• Counts small groups of objects with support.</li> <li>• Begins to recognise small quantities without counting.</li> </ul> | <ul style="list-style-type: none"> <li>• Counts objects accurately.</li> <li>• Recognises numerals.</li> <li>• Compares quantities.</li> <li>• Begins to understand composition of numbers through practical experiences.</li> </ul> | <ul style="list-style-type: none"> <li>• Have a deep understanding of number to 10, including the composition of each number.</li> <li>• Subitise up to 5.</li> <li>• Automatically recall number bonds to 5 (including subtraction facts) and some number bonds to 10.</li> </ul>    |
| Numerical Patterns                                                                                                                                                                                                             |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                       |
| Nursery Year 1                                                                                                                                                                                                                 | Nursery Year 2                                                                                                                                                                                                                       | Reception Early Learning Goals                                                                                                                                                                                                                                                        |
| <ul style="list-style-type: none"> <li>• Notices simple patterns, explores shape and compares objects using everyday mathematical language such as big, small, more and less.</li> </ul>                                       | <ul style="list-style-type: none"> <li>• Recognises, copies and creates repeating patterns. Explores shapes, measures and positional language while comparing quantities and discussing changes.</li> </ul>                          | <ul style="list-style-type: none"> <li>• Verbally count beyond 20, recognising the pattern of the counting system.</li> <li>• Compare quantities up to 10.</li> <li>• Explore and represent patterns within numbers up to 10, including doubles, sharing and equal groups.</li> </ul> |