

Being a mathematician at Rowner Junior School means;

1. Being confident and fluent with numbers and known facts

Children need to be confident using numbers. To do this they need to be using numbers regularly to count, calculate and spot patterns. They need to have a quick recall of known number facts from a young age. This starts with number sequences and bonds to 20; progressing to applying multiplication facts in decimals and larger numbers. Our aim is that our children will be fluent using numbers and be able to recall known facts to develop their understanding of numbers.

2. Being efficient at calculation

Children will learn in a variety of methods for the four calculation methods (addition, subtraction, multiplication and division). These methods will progress to efficient written calculation methods. Children will be taught to understand their methods and the relationships between them. This will grow in challenge as they progress through school ensuring that in each year their ability to calculate is strengthened and extended. Our aim is that all children should be able to work rapidly and accurately by the time they leave school.

3. Reasoning Mathematically

Our children will be able to recognise patterns, communicate their ideas and think logically about problems. To do this well we will ensure that they can;

- Enquire about number patterns and mathematical puzzles.
- Notice, describe and create mathematical patterns.
- Communicate their understanding of numbers and mathematics, including the relationships between one aspect of mathematics to another.
- Develop an effective use of mathematical vocabulary.

4. Solving Problems

Effective mathematicians can use their knowledge and skills to solve problems. We want our mathematics curriculum to challenge our children's thinking and ensure that they can think deeply. Children will be taught how to overcome challenges and being resilient, meaning they will be able to apply their mathematics in a variety of mathematical problems demonstrating increasing sophistication.