



# The Crescent Primary School

## Mathematics Policy

### Mathematics Vision

At The Crescent Primary School, we believe that every child can become a successful mathematician. Our mathematics curriculum is designed to develop children who are confident, resilient and enthusiastic learners, equipped with the knowledge and skills they need for their future lives.

Mathematics is an essential life skill that enables children to understand and make sense of the world around them. Through rich learning experiences, practical exploration, reasoning and problem solving, we aim to nurture children who are fluent in mathematical concepts and able to apply their understanding across a range of contexts.

Our approach is underpinned by our school values:

- **Aspire** - encouraging children to aim high, embrace challenge and believe in their ability to succeed in mathematics.
- **Belong** - creating an inclusive learning environment where every child feels valued, supported and capable of achieving success.
- **Curious** - fostering inquisitive thinkers who ask questions, explore patterns and develop a deep understanding of mathematical concepts.
- **Love** - promoting a positive attitude towards mathematics, where children enjoy learning, persevere through challenges and appreciate the beauty and usefulness of mathematics.

We want our pupils to leave The Crescent Primary School as confident mathematicians who can reason logically, solve problems effectively and make informed decisions using mathematics in everyday life.

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## Intent

The intent of our mathematics curriculum is to ensure that all pupils:

- Develop secure fluency in number and calculation.
- Build a deep and connected understanding of mathematical concepts.
- Reason mathematically using precise mathematical language.
- Solve a range of routine and non-routine problems.
- Develop confidence in selecting efficient strategies and methods.
- Understand how mathematics is used in everyday life and across the wider curriculum.
- Become resilient learners who are willing to explore, explain and justify their thinking.

Our curriculum follows the **National Curriculum for Mathematics** and is delivered through the **Hampshire Scheme of Learning**, which uses a cyclical approach. Key mathematical concepts are revisited regularly throughout the year, allowing children to build upon prior learning, strengthen understanding and secure long-term retention. This approach ensures that children are secure in all areas of the mathematics curriculum and can make meaningful connections between different mathematical concepts.

In addition, we use **Number Sense Maths** to secure strong foundations in number understanding and multiplication knowledge. This supports children in developing automatic recall of key facts, enabling them to focus on reasoning and problem solving as their mathematical understanding develops.

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## Implementation

### Teaching and Learning

Mathematics is taught daily and follows a carefully sequenced curriculum that ensures progression in knowledge, skills and understanding.

Teaching is structured around the key aims of the National Curriculum:

- Fluency
- Reasoning
- Problem Solving

Lessons are designed to:

- Build upon prior knowledge.
- Introduce concepts in manageable steps.
- Use concrete, pictorial and abstract representations where appropriate.
- Encourage mathematical discussion and collaboration.
- Develop children's confidence in explaining and justifying their thinking.

- Provide opportunities for challenge and deeper thinking for all learners.

## Number Sense and Fluency

Strong number sense is central to success in mathematics.

Through the **Number Sense Maths programme**, children develop:

- Automatic recall of number facts.
- Secure understanding of number relationships.
- Confidence with efficient mental strategies.
- Fluency in multiplication and division facts.

Regular retrieval practice helps children retain knowledge and strengthens long-term memory.

## Mental and Written Calculation

At The Crescent Primary School, we recognise the importance of both mental and written methods.

Children are taught a progressive range of strategies for:

- Addition
- Subtraction
- Multiplication
- Division

Our curriculum provides opportunities for children to:

- Develop efficient mental calculation strategies.
- Explore multiple methods for solving calculations.
- Understand the strengths and limitations of different approaches.
- Select the most appropriate and efficient method for a given calculation.

Rather than relying on a single approach, children are encouraged to make informed choices and explain why they have selected a particular strategy. This develops flexibility, independence and mathematical understanding.

## Mathematical Reasoning

Children are regularly challenged to:

- Explain their thinking.

- Justify their answers.
- Spot patterns and relationships.
- Make conjectures.
- Prove or disprove statements.

Teachers use effective questioning to promote discussion and deepen understanding.

## Problem Solving

Problem solving is embedded throughout the curriculum.

Children are provided with opportunities to:

- Apply their learning in unfamiliar contexts.
- Solve real-life mathematical problems.
- Work collaboratively to explore solutions.
- Evaluate and refine their methods.

We encourage children to persevere and view mistakes as valuable opportunities for learning.

## Inclusion

We have high expectations for all learners and believe that every child can achieve success in mathematics.

Teaching is adapted to meet individual needs through:

- Careful scaffolding.
- Adaptive teaching strategies.
- Practical resources and representations.
- Targeted intervention where required.
- Appropriate challenge for children working at greater depth.

All pupils are supported to access ambitious mathematical learning and make progress from their individual starting points.

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## Impact

The impact of our mathematics curriculum is evident through children who:

- Demonstrate confidence and enjoyment in mathematics.
- Recall key facts fluently and accurately.
- Apply mathematical knowledge effectively.
- Reason and justify using mathematical language.
- Solve problems using a range of strategies.
- Select efficient methods independently.
- Show resilience when faced with challenge.
- Make strong progress throughout their mathematical journey.

By the time they leave The Crescent Primary School, pupils will have developed the knowledge, skills and attitudes required to be successful mathematicians at secondary school and beyond. They will understand that mathematics is an essential tool for life and will embody our values of **Aspire, Belong, Curious and Love** in their approach to learning and problem solving.

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## Monitoring and Evaluation

The mathematics subject leader monitors the quality of teaching and learning through:

- Lesson visits
- Book looks
- Pupil voice activities
- Assessment analysis
- Planning reviews

This ensures consistency, high standards and continual improvement across the school.