Mathematics Vision (EEF-Aligned)

At Newport, our vision for Mathematics is to ensure that all pupils become confident, fluent and resilient mathematicians who can apply their knowledge to a wide range of contexts.

We recognise mathematics as a fundamental life skill and a key driver of achievement, opportunity and social mobility. Our curriculum is rooted in evidence-informed practice, drawing on the principles of the Education Endowment Foundation (EEF), ensuring that teaching is systematic, explicit and responsive to pupils' needs.

Through a carefully sequenced and ambitious curriculum, pupils develop secure arithmetic skills, deep conceptual understanding and the ability to reason and solve problems with confidence. We place a strong emphasis on ensuring pupils master the key foundations of number, enabling them to build knowledge progressively and apply it flexibly.

Our approach ensures that all pupils, particularly those who may be disadvantaged, are supported to develop fluency, close gaps and succeed, while also being challenged to think deeply and mathematically.

Curriculum Intent (EEF-Informed)

The Mathematics curriculum at Newport is designed to:

- Develop fluency in key arithmetic skills, ensuring rapid recall and accuracy
- Build secure conceptual understanding of mathematical concepts
- Enable pupils to reason mathematically, explain their thinking and justify answers
- Provide regular opportunities for problem solving in a range of contexts
- Ensure progression through carefully sequenced small steps
- Close gaps and support all pupils to achieve through targeted teaching and intervention

- Deliberate Practice: Frequent, structured practice strengthens retention and understanding

How Mathematics Promotes SMSC

Spiritual Development

- Develops curiosity and enjoyment in pattern, number and problem solving
- Encourages perseverance, reflection and a sense of achievement in overcoming challenges
- Builds confidence and a positive attitude towards learning

Moral Development

- Promotes honesty and accuracy in mathematical work

- Encourages logical reasoning and making justified decisions
- Develops resilience and responsibility when tackling challenging problems

Social Development

- Encourages pupils to discuss, explain and justify their thinking
- Promotes collaboration through paired and group problem-solving activities
- Builds respect for different methods and approaches

Cultural Development

- Demonstrates how mathematics underpins daily life, careers and global development
- Explores mathematical contributions from different cultures and civilisations
- Prepares pupils for participation in a modern, data-rich society

Implementation at Newport

- Daily mathematics lessons with a clear focus on fluency, reasoning and problem solving
- Regular, structured practice of key arithmetic skills to build automaticity
- Use of concrete and pictorial representations to support conceptual understanding
- Carefully sequenced lessons that build knowledge in small, manageable steps
- High-quality questioning to promote depth, reasoning and explanation
- Opportunities for application of skills across the curriculum
- Targeted intervention and support to ensure all pupils keep up
- Continuous assessment to inform responsive teaching

Impact

By the time pupils leave Newport, they will:

- Demonstrate secure fluency in arithmetic and number facts
- Apply mathematical knowledge confidently to reason and solve problems
- Explain their thinking clearly using mathematical language
- Show resilience and confidence when faced with challenging tasks
- Be fully prepared for secondary mathematics and everyday life