Kingsway Primary School

Values-Based Education – Curriculum Statement for Mathematics

At Kingsway Primary School, our maths curriculum is designed to integrate a reading-inspired approach that aligns with our core values. By fostering a love for reading within the context of mathematical learning, we aim to create a rich, engaging, and inclusive educational experience. Our intent is to develop students' mathematical skills while promoting togetherness, embracing diversity, fostering a passion for learning, and inspiring continuous growth.

Intent Overview

Our Mathematics Curriculum aims to:

- **Help us work Together in Mathematical Thinking**
  We promote a collaborative approach to problem-solving, where children learn *with and from each other*, celebrating the power of teamwork. Through paired discussions and group reasoning tasks, pupils develop confidence and resilience while building a shared mathematical understanding.
- **Celebrating Difference in Mathematical Approaches**
  We value and encourage diverse methods and strategies, helping children appreciate that there are many ways to solve a problem. By exploring different perspectives, pupils develop flexible thinking and deepen their understanding, recognising that diversity strengthens our learning community.
- **Develop a Passion for Deep Mathematical Understanding**
  Through the mastery approach of White Rose Maths, we foster a love for learning by encouraging children to explore concepts deeply rather than moving on quickly. Rich questioning, reasoning, and opportunities for mathematical exploration ensure all children are inspired to think critically and creatively.
- **Grow Confident, Independent Mathematicians**
  Our curriculum equips children with the skills to take ownership of their learning, reflect on their progress, and celebrate their growth. With regular opportunities to connect reading and maths, pupils become confident problem-solvers who can apply their knowledge to new and challenging situations, ready to thrive in an ever-changing world

Implementation Strategies through our School Values

We Care about Togetherness	We Thrive on Difference
To promote caring about togetherness through Maths we encourage the following behaviours: • **Collaborative Problem-Solving** Children regularly work in pairs and small groups to solve problems, share strategies, and explain their reasoning, fostering a sense of shared success and learning from one another. • **Encouraging Mathematical Talk and Active Listening** Classrooms prioritise respectful dialogue, where every child's ideas are heard and valued. Pupils build on each other's thinking	To promote thriving on difference through Maths we encourage the following behaviours: • **Valuing Diverse Strategies and Methods** Children are encouraged to explore and share a variety of methods for solving problems, recognising that different approaches can lead to the same solution. Teachers celebrate when pupils try something new or think differently. • **Using Open-Ended Tasks with Multiple Solutions** Lessons regularly include rich tasks that allow for more than one correct answer or method, helping children appreciate that

and use sentence stems to respectfully agree, disagree, and clarify understanding.

- **Mixed-Attainment Grouping Opportunities**
  Tasks are designed to allow children of all abilities to contribute meaningfully, recognising and valuing the different strengths each child brings to the group, and ensuring everyone feels included and supported.
- **Celebrating Group Effort and Success**
  Teachers celebrate examples of effective teamwork and collective perseverance, highlighting when groups overcome challenges together and demonstrating that success is a shared journey, not just an individual achievement.
- **Peer Support and Mentoring**
  Opportunities are created for children to act as maths buddies or mentors, offering help and encouragement to peers who may be struggling, promoting empathy and strengthening relationships across the class.

maths isn't always about one 'right' way but about exploring possibilities and thinking creatively.

- **Representing Mathematical Ideas in Different Ways**
  Pupils use a range of representations—such as concrete resources, diagrams, number lines, and bar models—to express their understanding, supporting varied learning styles and making maths accessible and meaningful for everyone.
- **Encouraging Personal Mathematical Journeys**
  Children are supported to reflect on and articulate their own learning styles and preferences, understanding that everyone's learning journey is unique and valuable. Teachers provide choices in how children record and present their thinking.
- **Learning from Mistakes and Different Perspectives**
  Mistakes are openly discussed and seen as powerful learning opportunities. Pupils are encouraged to respectfully challenge each other's thinking and learn from different perspectives, building confidence in their own unique ways of reasoning.

We are Passionate about Learning

To promote being passionate about learning through reading, we encourage the following behaviours:

- **Enthusiastic Exploration of Mathematical Ideas**
  Teachers and pupils show excitement and curiosity when tackling new concepts, with lessons filled with wonder moments where children are encouraged to ask *"What if...?"* and *"Why does this happen?"* to deepen their understanding.
- **High-Quality Questioning and Challenging Tasks**
  Lessons include thought-provoking questions and rich, challenging problems that spark curiosity and motivate pupils to think deeply, fostering a desire to explore beyond the surface of a concept.
- **Celebrating Effort and the Joy of Discovery**
  Classrooms actively celebrate the process of

We are Inspired to Grow

To promote being inspired to grow through reading, we encourage the following behaviours:

- **Growth Mindset Language and Culture**
  Teachers and pupils use positive language that focuses on effort, perseverance, and improvement (e.g., *"I can't do this yet,"* or *"Mistakes help me learn"*), fostering resilience and a belief that everyone can grow as a mathematician.
- **Personalised Challenge and Next Steps**
  Lessons provide appropriate challenge for all learners, with clear next steps and extension tasks that stretch thinking. Pupils are encouraged to set personal goals and reflect on their progress towards them.
- **Regular Reflection on Learning Journeys**
  Children are given time to review what they've learned, celebrate their achievements, and identify areas for growth, helping them take ownership of

learning—whether through solving a tricky problem, finding a new method, or having a 'lightbulb' moment—helping children associate maths with excitement and personal achievement. • **Linking Maths to Real Life and Personal Interests** Teachers connect mathematical concepts to real-world scenarios and topics that matter to children, helping them see the relevance of maths in their own lives and inspiring a lifelong love of learning. • **Encouraging Independent Enquiry and Ownership** Pupils are given opportunities to independently investigate mathematical ideas, ask their own questions, and explore solutions, building intrinsic motivation and a genuine passion for learning more.	their development and recognise how far they've come. • **Visible Learning Walls and Success Celebrations** Classrooms display working walls and learning journeys that show how ideas develop over time. Pupils' progress and breakthroughs are publicly celebrated, inspiring others to keep striving for improvement. • **Teachers as Models of Lifelong Learners** Teachers openly share their own learning journeys, model curiosity, and show that even adults are always learning and growing in their mathematical thinking, inspiring pupils to adopt the same mindset.

Impact

By the end of their primary education, children at Kingsway Primary School will be:

- **Confident and Collaborative Mathematicians**
  Pupils leave primary school with a strong sense of mathematical confidence, able to work collaboratively, communicate their thinking clearly, and value the power of teamwork in solving complex problems, reflecting our belief in *caring about togetherness*.
- **Flexible, Creative Problem-Solvers**
  Children embrace mathematical challenges with curiosity and resilience, drawing on a range of strategies and representations. They celebrate diverse approaches and respect different perspectives, demonstrating that they *thrive on difference* and understand that there are many ways to reach a solution.
- **Curious and Passionate Lifelong Learners**
  Our pupils develop a genuine passion for mathematics, fostered through meaningful links with high-quality literature and real-world contexts. They leave with a love of learning, motivated to ask questions, explore ideas deeply, and continue their mathematical journey beyond the classroom, truly *passionate about learning*.
- **Reflective and Ambitious Individuals Ready to Grow**
  Children understand that learning is a continuous journey. They can articulate their progress, celebrate their successes, and confidently identify their next steps. With a growth mindset firmly embedded, they are *inspired to grow* and ready to embrace future learning with enthusiasm and determination.

Monitoring and Evaluation

- **Assessment of Learning:** Regularly assess students' progress in both math and reading through formative and summative assessments, ensuring that the integration of the two subjects enhances overall learning.

- **Feedback Mechanisms:** Collect feedback from students, parents, and teachers on the effectiveness of the reading-inspired math curriculum, making adjustments based on this input to continually improve the program.
- **Student Reflections:** Encourage students to reflect on their experiences through journals and discussions, providing insights into how the integration of reading and math is impacting their learning and growth.

By embedding the values of togetherness, diversity, passion for learning, and growth into our mathematics curriculum through a reading-inspired approach, we aim to create a rich and inclusive educational experience. This approach not only enhances students' mathematical skills but also fosters a love for reading, critical thinking, and a strong sense of community, preparing our students to thrive in an interconnected world.