VINES Curriculum – Maths

Instil the Gospel, our school and British Values by providing valuable learning opportunities that build upon knowledge and skills 	**Inspire children to reach their full potential and create articulate and independent learners** 	**Nurture a love of learning and self-worth** 	**Encourage resilience and determination** 	**Success - showcase skills in a safe, inclusive environment** 
We provide meaningful and inclusive mathematical learning experiences that build upon pupils' knowledge and skills, while embedding Gospel values, our school ethos, and British Values. These principles are integrated in the following ways: Gospel Values in Dialogue: Children demonstrate Gospel values such as love, dignity, and respect during mathematical discussions. They listen attentively, value each other's contributions, and engage in learning with kindness and compassion.	In our mathematics curriculum, we are committed to developing confident, resourceful, and reflective learners who can apply their mathematical knowledge both in and beyond the classroom. Building on Prior Learning: Teaching is carefully scaffolded to help pupils make connections between new and prior learning, enabling them to build a deep and secure understanding of key concepts.	We strive to foster a genuine love of learning and a strong sense of self-worth in all pupils by creating a positive, inclusive, and engaging mathematical environment. Appropriate Challenge and Support: Pupils who grasp concepts rapidly are offered rich, sophisticated problems to deepen understanding, while those needing more time are supported through consolidation and additional practice. This ensures every child is valued and nurtured at their own pace.	We are committed to developing learners who are resilient, determined, and confident problem-solvers. Our mathematical approach encourages children to embrace challenge, learn from mistakes, and work collaboratively to succeed. Self-Assessment and Reflection: Children regularly reflect on their own learning, identifying what they understand and where they need further development. This promotes ownership and a growth mindset. Teamwork and Peer Support: Every lesson fosters a collaborative environment where children support each	At the heart of our Maths provision is the belief that every child can succeed. We foster a learning environment where children feel safe, valued, and confident to take risks and celebrate their progress. Happiness and Wellbeing: We recognise that happiness is closely linked to personal growth, health, and development. In Maths, we aim for all children to experience joy in their learning and to see themselves as capable, confident mathematicians.

Exploring Mathematical Evidence: Children are taught to critically evaluate mathematical reasoning by distinguishing between conclusions based on evidence and those based on personal preference or method. This nurtures integrity, wisdom, and the British Value of individual liberty through reasoned decision-making. Collaborative Learning and Support: Pupils work together in a spirit of community and mutual respect, discussing mathematical findings, valuing each other's contributions, and supporting peers in their learning. This promotes Gospel values such as love, dignity, and service, as well as the British Values of democracy and respect for others. Cultural Inclusion in Mathematics: By	Progressive Vocabulary and Knowledge Development: Teachers introduce new knowledge, skills, and vocabulary in small, manageable steps, addressing misconceptions as they arise and using clear modelling to demonstrate their thinking. Reflecting and explaining: Pupils are given regular opportunities to revisit and discuss previously learned content, strengthening their ability to reason mathematically, follow lines of enquiry, and develop arguments and justifications using precise mathematical language. Problem solving and Perseverance: Problem solving is embedded throughout, with children encouraged to apply their learning to a variety	Accessibility for All: Differentiated learning ensures all children can access and engage with mathematical concepts, supporting equity and inclusion across our curriculum. Building Cultural Capital: We provide real-life experiences that connect Maths to the world around them, such as trips to shops, parent workshops, practical investigations, and problem-solving activities. These opportunities help children see the relevance of Maths in their daily lives. Hands-On and Practical Learning: Children engage in investigative and experiential learning, using practical resources to explore mathematical events and concepts. Child-Led Problem Solving: Learners are encouraged to	other's learning, address misconceptions together, and grow in confidence as a team. Perseverance in Challenge: Pupils are encouraged to show patience and determination when working through increasingly complex, multi-step word problems, building stamina and logical thinking. Exploration and Problem Solving: Learners are given opportunities to test, adapt, and refine their ideas through hands-on problem-solving activities, fostering creativity and resilience. Cross-Curricular Connections: Mathematics is linked meaningfully with other areas of the curriculum—such as Science, History, and Geography—helping children see its relevance and apply critical thinking. Active Participation: Children take an active	Achievement for All: Every child is given the opportunity to achieve and stretch themselves in every lesson, supported by a positive, inclusive learning atmosphere that promotes confidence and resilience. Enjoyment and Curiosity: Pupils are encouraged to develop a sense of enjoyment and wonder about mathematics, nurturing an appreciation of its beauty, structure, and power. Fluency and Mastery: We prioritise fluency in the fundamentals of mathematics, providing regular opportunities for varied and frequent practice with problems that increase in complexity over time. This helps pupils develop conceptual understanding and the ability to recall and apply knowledge quickly and accurately are provided

incorporating names and contexts from a variety of cultures in mathematical word problems, we foster inclusivity and global awareness, reinforcing the Gospel value of respect for all and the British Value of tolerance of those with different faiths and beliefs.	of routine and non-routine problems, break them down into smaller steps, and persevere in seeking solutions. Active learning: Talk is a central feature of our approach, with pupils actively participating in their own learning by discussing strategies, asking each other questions, and learning collaboratively. Collaboration and Teamwork: We foster a supportive classroom environment where teamwork is encouraged, mistakes are seen as learning opportunities, and all children are motivated to engage deeply with mathematics. Life-Long Learning and Relevance: We aim to create resourceful, resilient mathematicians by making real-life connections and showing how maths	generate their own questions, fostering curiosity, independent thinking, and deeper understanding through exploration. Celebration and Motivation: We use praise, recognition, positive attitude towards Maths. Developing Curiosity: Teachers regularly pose 'Big Questions' to provoke thought, stimulate inquiry, and promote meaningful discussion. Positive Role Models: Our enthusiastic and passionate teachers serve as role models, demonstrating how a love for Maths can inspire creativity and confidence. Showcasing Achievement: Children's work is proudly displayed, creating a sense of ownership and pride in their learning.	role in their learning by asking and answering questions, engaging in dialogue, and working together to explore different methods and perspectives. Supportive Environment: We create a classroom culture of encouragement, mutual respect, and teamwork, where every child feels safe to make mistakes and grow from them. Exploratory Talk: Pupils are encouraged to discuss mathematical ideas before formal teaching, allowing them to discover a wide range of strategies and deepen their understanding through dialogue.	with rich opportunities to explore how Maths is used in everyday life. Through hands-on learning and the use of a wide range of resources and technology, pupils see the practical relevance of Maths in the modern world. Inclusive Environment: Our Maths lessons are designed to ensure all children—regardless of ability, background, or learning style—feel safe to contribute, ask questions, and celebrate their achievements.

	applies beyond the classroom. By linking learning to real-life contexts, we aim to make maths meaningful and inspire children to become lifelong mathematicians.	Real-World Application: We make clear links between classroom learning and real-life contexts, helping children see the purpose and impact of Mathematics in everyday situations. Everyday Maths Awareness: Pupils are encouraged to notice and discuss how Maths appears in the world around them—from cooking and shopping to patterns in nature and technology—helping to embed learning beyond the classroom.		