SUBJECT ON A PAGE

Maths

At Shrivenham CE Primary School, we believe that every child can become a successful mathematician. We provide a rich, engaging and ambitious curriculum that develops curiosity, confidence and resilience. Through carefully sequenced learning, practical experiences and mathematical discussion, we enable children to reason, solve problems and make meaningful connections, preparing them for the next stage of their education and everyday life.

Our Intent: we aim to…

- Develop curious mathematicians who explore, question and make connections.
- Build confident learners who take risks, explain their thinking and learn from mistakes.
- Secure fluency so children can recall and apply key mathematical knowledge efficiently.
- Develop mathematical reasoning through rich discussion, justification and problem solving.
- Build deep, conceptual understanding through carefully sequenced learning and varied representations.
- Help children to see the value of maths in everyday life.

Our Implementation: How will we deliver our intent?

Maths Curriculum

- In EYFS, children develop secure early number sense through the Mastering Number programme.
- From Year 1 to Year 6, we follow the White Rose Maths scheme to deliver a coherent and progressive curriculum.
- Mastering Number is also used as a supportive tool in KS1 to strengthen fluency and confidence.
- Small, carefully sequences steps build deep conceptual understanding and confidence.
- Learning is carefully planned to revisit and build upon prior knowledge throughout the year.

Mathematical Talk

- Mathematical talk is at the heart of every lesson.
- Children explain, justify and refine their thinking using accurate mathematical vocabulary.
- Teachers use effective questioning and sentence stems to promote reasoning, discussion and collaborative problem solving.
- Every child is encouraged to contribute, building confidence, resilience and independence as mathematical thinkers.

Fluency and Retrieval

- Daily retrieval helps children secure prior learning.
- Maths on Track (MOT) sessions revisit key concepts and address misconceptions before new learning begins.
- Fluency is developed through regular practice of number facts, arithmetic and efficient calculation strategies.

Concrete, Pictorial and Abstract

- Practical equipment and visual representations help children build secure conceptual understanding.
- Children move confidently from concrete resources to pictorial representations before working abstractly.
- Manipulatives are used to deepen understanding.

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Reasoning and Problem Solving

- Children are encouraged to reason, explain and justify their mathematical thinking.
- Problem solving is embedded throughout the curriculum to deepen understanding.
- Children apply their mathematical knowledge in a range of different contexts.

Assessment for Learning

- Ongoing assessment informs teaching and identifies next steps.
- Teachers use questioning, observation and retrieval activities including 'Recap It' at the start of every lesson and 'Share It' to identify misconceptions.
- Summative assessments monitor progress and support future planning.
- Assessment ensures all children are supported and challenged appropriately.

Adaptive Teaching

- High expectations are maintained for all learners.
- Teaching is adapted through careful scaffolding, questioning and appropriate challenges.
- Manipulatives and representations support children in developing secure understanding.
- All children are supported to achieve success and make progress.
- The 'Share It' task identifies children who need additional support. They are then 'scooped and grouped' and any misconceptions are addressed.

Maths in Action

- Children experience maths beyond the daily lesson through practical and real-life opportunities.
- Hands on activities and cross curricular links encourage exploration, discussion and deeper understanding as well as helping to bring maths to life.
- Times Table Rock Stars supports fluency and confidence with multiplication facts.
- Events such as NSPCC Number Day and parent workshops develop curiosity and promote a positive attitude towards learning.

Our Impact: How will we know we achieved our aims?

- Children will enjoy maths and approach new learning with curiosity and confidence.
- Children will use accurate mathematical vocabulary to explain and justify their thinking.
- Children will recall and apply key knowledge fluently.
- Children will solve complex problems using efficient strategies and demonstrating resilience.
- Children will make connections across different areas of maths and the wider curriculum.
- Children will leave Y6 with the skills for future mathematical success.