At St George's CE Primary, we believe that quality teaching of Mathematics allows all pupils to foster an enjoyment and curiosity to reason and solve problems relating to numbers, thus helping them to better understand the world around them. Mathematics offers an insight into ever evolving patterns and sequences as well as dealing with abstract concepts such as number, quantity and space.

Mathematics at

St George's
Church of England Primary School
Bringing **faith** and **education** together

INTENT

In order to access and explore our curriculum, children will be exposed to the 5 big ideas of mastery (coherence; representation and structure; mathematical thinking; variation; and fluency). They will be afforded time to investigate using practical equipment, be given opportunities by teachers to follow their own interests and develop a strong understanding of mathematical vocabulary. Our aim is for children to recognise how Mathematics helps them in their everyday life (as well as in other curriculum subjects) and, through increasing resilience, enjoy the challenges that it brings.

IMPACT

Our curriculum ensures there is clear progression with opportunities to recap and revise as well as broaden and deepen knowledge. In order to ensure we measure impact we gather a variety of data and feedback to ensure our children become proficient and independent mathematicians. The information gathered through these methods directly impacts future teaching and learning opportunities ensuring we are meeting the needs of all learners.

IMPLEMENTATION

We believe these principles underpin quality teaching and learning in the Maths curriculum:
Children should be able to:

- become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils have conceptual understanding and are able to recall and apply their knowledge rapidly and accurately to problems;
- **reason** mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language. Then explain such arguments and justifications with rich mathematical vocabulary;
- **solve problems** by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions;
- develop an **enjoyment of learning** through **practical activity, investigation, exploration; mental exertion and discussion**;

display **confidence and competence** with numbers and the number system;

- further the ability to **solve problems** through connecting ideas, decision-making and applying their knowledge to **real life contexts**;
- **develop mathematical skills** in a range of contexts, including other subjects such as Science and Geography;
- **explore features** of shape and space, and develop measuring skills in a range of contexts;
- **understand the importance of Mathematics** in everyday life, especially in relation to essential life skills such as telling the time and handling money;
- develop **positive attitudes** towards Mathematics by improving their **confidence, independence, resilience and co-operation** skills and understand **Growth Mindset** in a Mathematical context.