



*"Mathematics is, in its own way, the poetry of logical ideas."*

(Albert Einstein).

### Intent

At St Ives Infant School we aim to nurture flexible, brave and excited mathematicians who are curious and feel empowered to tackle new challenges. We believe our mathematics curriculum should provide our children with a foundation for understanding number, reasoning, thinking logically and problem solving with resilience so that they are fully prepared for the future. We follow a mastery approach to maths and this means pupils across the school acquire a deep, long term, secure and adaptable understanding of the subject. The phrase '*teaching for mastery*' describes the elements of classroom practice and school organisation that combine to give pupils the best chance of mastering maths.

We ensure that we deliver a high-quality maths curriculum that is both challenging and enjoyable. We want children to make rich connections across mathematical ideas to develop fluency, mathematical reasoning and a growing competence to begin to learn the skills to solve increasingly sophisticated problems. We intend for our pupils to be able to apply their mathematical knowledge to science and other subjects. We want them to know that maths is essential to everyday life and that our children are confident mathematicians who are not afraid to take risks.

### Implementation

At St Ives Infant School we follow the Whiterose Maths scheme of work. White Rose Maths provides teachers with a clear structure of small steps for daily lessons to support the children's understanding and progress of maths. It is designed to support and challenge all pupils and is built on the belief that everyone can learn maths successfully.

In addition to Whiterose maths, pupils also learn Key Number Facts which supports their work in number and fluency and promotes the skill of rapid recall of number fact to develop their understanding. The Key Number Facts are linked closely to National Curriculum expectations for each year group and provide the children with daily practice and repetition to support their progress.

Our maths lessons use different teaching techniques including teaching fluency, reasoning and problem solving. Children will experience different models and images to represent the same problems and will be learn and be supported using different manipulatives to deepen their understanding. Children will work practically as well as developing the skill of written recording of maths accurately.

Early maths skills are developed from the moment the children join us either in Nursery or Reception. Children in the foundation stage are supported in developing their number confidence through daily taught sessions. There are also opportunities provided in class provision for children to explore number further. In our Reception classrooms, key areas of the classrooms are dedicated to number so the children have continual access to maths during focused work and independent learning time.



### Impact

The impact of our approach to maths at St Ives Infant School is to create children who have the skill, knowledge and confidence to prepare them for the next stage in their educational journey and beyond. It is important that our mathematicians have the opportunity to be resilient and understand that what they know can be applied in other areas. By providing many learning opportunities that incorporate representations and structures, manipulatives, reasoning, variation and fluency, we aim to spark an interest in maths that highlights its importance to everyday life and prepares our pupils for their future.