



## **Mastery in Maths at Charlton Kings Infants' School** **'Building mathematical knowledge and fluency to enable every child to develop logical and coherent thinking'**

### **Beliefs and values:**

At Charlton Kings Infants' School we acknowledge the importance of mathematics. It is a core subject in the National Curriculum and listed as a 'specific area' in the EYFS framework. We aim to address the National Curriculum and EYFS requirements by developing each child's mathematical potential to the full and help each child derive personal pleasure and satisfaction. We aim to raise the profile of mathematics by demonstrating to children how useful and powerful mathematics is as a means of communication and as a tool to solve every day problems. We aim to promote an interest in the subject and to develop understanding of it, as a tool to make sense of the world. We encourage the interest and involvement of parents in the mathematical education of their children.

### **Mastery teaching and learning in Maths:**

At CKIS we aim to:

- Develop children's concepts, fluency, skills and knowledge through practical exploration and the provision of clear models (concrete, pictorial and abstract), to allow them to develop clear, logical and coherent thinking.
- Encourage children to reason mathematically and solve problems by applying their mathematical knowledge.
- Use, retain and apply number facts and strategies, and to develop and use mental calculations efficiently.
- Develop pupils' mathematical language so that ideas can be expressed, explained and shared appropriately.
- Encourage children to appreciate the links between mathematics and everyday situations and to explore and reinforce this subject through other curriculum areas.
- Ensure that children are able to select and use appropriate mathematical equipment confidently and competently.
- Ensure that all pupils have the opportunity to develop mathematical skills to their best potential.

We teach the knowledge and skills needed to be highly effective mathematicians. We do this by:

- delivering a broad, progressive mastery curriculum based on the National Curriculum Mathematics Programmes of Study and EYFS framework.
- using a variety of teaching strategies during mathematics lessons, including whole class teaching, group and individual work.
- ensuring continuity and progression throughout the school through our progression document, planning, target setting, record keeping and assessment (see Assessment Policy).
- using homework (Y2) as a resource for children to reinforce and extend their mathematical skills and understanding.
- encouraging a positive 'can do' attitude and approach to mathematics as an interesting, useful, and enjoyable subject.

We then provide opportunities for children to consolidate and apply these skills through a rich and challenging continuous provision. This provides invaluable opportunities for teachers and teaching partners to address misconceptions and challenge every child.



## Monitoring, Evaluation and Improvement:

At CKIS we continually monitor children's progress and attainment using the following:

- Nationally standardised termly tests are carried out in mathematics
- Teacher assessments in EYFS, Y1 and Y2
- Alignment against CKIS progression document
- Pupil progress meetings three times a year (teacher assessment)

We monitor teaching and learning in Mathematics through:

- regular learning walks
- book scrutiny
- mathematics team meetings
- data analysis
- pupil conferencing
- attending regular training and meetings