



Subject Vision 2022-2023

Subject: Mathematics

Leaders: C Thomas

To be reviewed September 2023

Castle Hill Primary is a safe and stimulating environment where children encounter challenging and creative learning experiences. Through the implementation of the national curriculum aims, each member of the school community is motivated to be a life-long learner. At Castle Hill Primary School, we endeavour to teach our children a rich and progressive curriculum. We believe that mathematics teaches us how to make sense of the world around us through developing a child's ability to calculate, to reason and to take risks when solving problems.

The National Curriculum for primary mathematics has three aims that are at the heart of how we interpret the content of the curriculum.

- **Conceptual Understanding**
In developing children's skills through enhancing their factual, conceptual and procedural knowledge, we allow them to deepen their mathematical understanding. This enables children to generalise, think fluently, and develop speed and accuracy when applying what they know to help them to solve problems.
- **Mathematical Reasoning**
The progression and development of mental calculations and efficiency in strategies will provide children with the metacognition skills which will allow them to communicate and present their findings effectively using appropriate mathematical language.
- **Problem-Solving**
At Castle Hill Primary, mathematics is integral to all aspects of life and it is with this in mind that we endeavour to ensure that children develop self-confidence in their ability to approach a range of mathematical problems with critical and logical thinking.

By providing opportunities to apply their mathematical skills in different contexts and across a range of subject areas, children will be able to work systematically to organise information, find patterns and ultimately solutions through independent and collaborative learning.

Throughout their time at CHPS children should:

- Approach maths with confidence and determination
- Feel comfortable to make mistakes and learn from them
- Be given regular opportunities to approach problems independently
- Make independent decisions about strategies to use in Maths
- Be encouraged to think holistically about Maths by bringing in different aspects of their mathematical knowledge

- Be encouraged to develop flexible thinking to solve problems in different ways
- Explain their thinking clearly and logically using appropriate mathematical vocabulary
- Have an efficient range of strategies to calculate mentally