

## Curriculum Intent

### Subject: Maths

#### Intent

The purpose of the Mathematics curriculum at Glenfield is to develop the children's ability and skills in mathematical fluency, problem solving and reasoning, whilst developing the children's ability to work systematically and with increasing accuracy. Children learn new mathematical concepts through a concrete, pictorial and abstract approach (CPA) which allows children to have clear models and images of mathematical concepts to support their understanding. Arithmetic and basic maths skills are practised daily to ensure children can recall these and use them across the mathematical curriculum. The mathematical curriculum at Glenfield aims to develop children's mathematical skills along with a deep solid understanding of the maths they are learning which supports them as they build on their mathematical knowledge and understanding.

#### Implementation

At Glenfield we teach mathematics in line with the national Curriculum 2014 using a CPA approach. Children develop their learning using concrete resources (including physical actions and maths talk) a variety of pictorial representations and abstract representations (written mathematical symbols, signs and numbers). This approach is used to initially teach new concepts, through an 'I do, we do, you do' modelling approach as a whole class. The children then practise mathematical concepts using the CPA approach to become secure with it and then use it to demonstrate their knowledge and understanding of the concept through applying it to solving problems and mathematically reasoning. Children's learning and understanding are monitored throughout each unit using entry pass tasks, in lesson assessment, and exit passes to ensure that each child is taught and challenged appropriately. Within maths teaching links between areas are made as well as mathematical links in other areas of the curriculum, such as science. Children learn and recall numbers bond facts (KS1) and times table facts (Yr2) and are assessed through Maths Galaxy and Mountain Challenge respectively.

#### Impact

Glenfield's mathematical curriculum will develop children to be mathematical thinkers who develop their conceptual understanding and are able to communicate mathematical ideas using a CPA approach. At Glenfield children develop confident positive attitudes towards maths and are always prepared to 'have a go'. Teachers use formative assessment within each lesson to quickly identify where children require further scaffolds for their learning, re-teaching of a concept or further challenge to develop their deeper knowledge and understanding of a concept. The mathematics curriculum allows children to make links between different areas of maths and use their knowledge and understanding to support new learning.