River View Primary & Nursery School
Curriculum Intent

Subject/Area:

Maths

Rationale:

At River View Primary and Nursery School, we intend for pupils to develop a love of maths and enjoy the excitement and challenge that problem solving brings. We also want to equip children with the mathematical skills necessary to assist them in day-to-day life when the time comes for them to leave us.

INTENT

Ambition:

Maths will be taught each day for an hour, Monday to Thursday. Each lesson will have time set aside for reasoning practise, incorporating the five big ideas of mastery. In addition to this, there will be further opportunities to develop and revisit prior learning in weekly arithmetic lessons/ NCETM lessons.

Concepts

All children will:

- Use a combination of concrete, pictorial and abstract (CPA) methods to approach a variety of maths questions, learning how to independently select the best method to use to solve the given problem
- Concrete step: Concrete is the "doing" stage. During this stage, students use concrete objects to model problems. Unlike traditional maths teaching methods where teachers demonstrate how to solve a problem, the CPA approach brings concepts to life by allowing children to experience and handle physical (concrete) objects. With the CPA framework, every abstract concept is first introduced using physical, interactive concrete materials.
- Pictorial step: Pictorial is the "seeing" stage. Here, visual representations of concrete objects are used to model problems. This stage encourages children to make a mental connection between the physical object they just handled and the abstract pictures, diagrams or models that represent the objects from the problem.
- Abstract step: Abstract is the "symbolic" stage, where children use abstract symbols to model problems. Students will not progress to this stage until they have demonstrated that they have a solid understanding of the concrete and pictorial stages of the problem. The abstract stage involves the teacher introducing abstract concepts (for example, mathematical symbols).