



Maths Rationale

Mathematics teaching and learning at West Boldon follow the key aims of the National Curriculum. We aim to ensure that all pupils become fluent in the fundamentals of mathematics and in number so that pupils develop solid conceptual understanding and the ability to recall and apply knowledge rapidly and accurately. Children at West Boldon are taught to reason mathematically by following a line of enquiry, finding connections and establishing relationships whilst using mathematical language. Children are taught to solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Our aim is to ensure the children will:

- Become fluent in the fundamentals of mathematics.
- Develop conceptual understanding and the ability to recall and apply knowledge rapidly.
- Be able to reason and problem solve by applying mathematics to a variety of increasingly complex problems.
- Develop early number skills in EYFS.
- Build upon children's knowledge and understanding from year 1 to year 6.
- Develop resilience that enables all children to reason and problem solve with increased confidence.

To achieve this we will:

- Ensure full topic coverage. The school uses Power Maths White Rose Edition, which follows a mastery curriculum. This is a whole-school primary maths curriculum that creates continuity and progression in the teaching of mathematics.
- Teach daily maths lessons which include fluency, reasoning and problem solving.
- Ensure lessons are differentiated where appropriate to ensure there is appropriate challenge for all learners.
- Use concrete manipulatives and pictorial representations to support conceptual understanding and to make links across topics.
- Teach daily Mastering Number sessions, which ensure key skills are embedded in teaching and learning.
- EYFS use Numberblocks to enhance their arithmetic sessions and embed early number.
- Use the online learning platforms TTRockstars, Numbots and Century to support key skills for home learning activities and also during the school day.
- Assess children on a termly basis.

The impact of these intentions will be:

- Most children reach end of year expectations.
- Children's progress is tracked on Sonar.
- Well planned sequences of learning support children to develop and refine their maths skills.

- Children are able to independently apply their knowledge to a range of increasingly complex problems.
- Children are reasoning with increased confidence and accuracy.