



# Maths on a page



## Intent - why?

At Woolacombe, we value maths as the universal language that connects all things. We want our children to experience the joy of maths; to notice and to actively seek out patterns and connections between each strand, leading them to the view that maths is a beautifully organic and interwoven subject.

We aim for every child to achieve **mathematical fluency, not just knowing facts, but knowing how to derive them using their conceptual knowledge.**

We work towards all children becoming logical problem solvers, approaching their work **systematically**, using their prior knowledge as the starting block from which to go forward. We will encourage **resilience** through success and productive struggle as they find solutions to problems, seeking help when needed but ultimately aiming to become independent problem solvers.

We strive for all children to become **proud and confident** mathematical speakers, articulating their own thinking clearly and concisely. They will learn to challenge ideas **respectfully** and help to improve on the ideas of others.

## Implementation - how?

We follow White Rose Maths scheme to ensure consistency in progression of knowledge, approach, models and representations, strategies and language across the school.

Individual lessons are adapted from the scheme to ensure they match the learning needs of all children.

Regular formative and termly summative assessments ensure progression is monitored and gaps in learning identified and addressed.

We have regular "fluency" sessions, not necessarily forming part of the maths lesson. This session is to develop knowledge of key facts by becoming fluent in strategies that help us derive these facts.

We will model and consistently expect correct use of mathematical vocabulary to ensure children can concisely explain their thinking in mathematical terms.

In every lesson, we **value mistakes as an essential part in the process of learning.**

## Impact - what?

- ★ Children enjoy maths and display curiosity about it.
- ★ Children see how maths links to the wider world.
- ★ Children can talk about their learning; can explain what they are learning about, what they have improved on and what they are aiming to get better at.
- ★ Children see themselves as successful learners and are motivated by this to dig deeper in their learning.
- ★ Children learn to be resilient and understand that struggle is a part of learning.
- ★ Children recognise when they need help, and can turn to a peer for support before seeking guidance from an adult.
- ★ Children learn to record their thinking in models and abstract notation.
- ★ Children can use their previous knowledge to support their ongoing learning.
- ★ Children become fluent in deriving number facts and times table facts, using this skill to support deeper problem solving.
- ★ Children are able to reflect on mistakes and use these to support further learning.

