

How we teach mathematics:

Throughout history, mathematics has shaped the way we view the world and remains as important as it ever was today.

Many life stages and skills require a solid grasp of mathematics, from entering university to balancing a household budget, applying for a home loan, or assessing a possible business opportunity. When children eventually leave education and seek out a career, they will inevitably need to call upon the mathematical skills and strategies they have learnt at school. We aim for them to understand that many careers require a solid understanding of maths - doctors, lawyers, accountants and other professionals use maths on a daily basis, as do builders, plumbers, engineers and managers. Maths is a critical skill for many professions and opens a world of opportunity for children.

Mathematics equips children with a powerful set of tools to understand and live fully in the world. These tools include logical reasoning, problem-solving skills, and the ability to think in abstract ways. At Blackboys & Framfield School mathematics is also considered a creative discipline and can stimulate moments of happiness and wonder as a child solves a problem for the first time, discovers a more efficient solution to a problem or suddenly sees hidden connections.

At Blackboys & Framfield School, we follow the national curriculum for mathematics aims to ensure that all pupils:

"become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils have conceptual understanding and are able to recall and apply their knowledge rapidly and accurately to problems ...

Develop the ability to **reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language

Are able 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." (*National Curriculum Framework document 2013*)

Below is an outline summary of the skills and knowledge to be taught in each year group.