Intent: What are we trying to achieve?

Subject Vision - Mathematics

Mathematics is a creative and inter-connected discipline that encompasses the accumulation of knowledge from a variety of cultures over centuries. It is essential to other areas such as science, technology and engineering and it is crucial in providing opportunities for future education and employment.

At Parklands we aim to provide a high quality Maths education to enable our pupils to be confident, curious learners who are interested in solving problems. We believe in teaching for Mastery and this is at the heart of everything we do. We believe every child can be successful in Maths; we encourage pupils to understand the connections between different areas of Maths; and we strive for depth of understanding with all of our pupils..

Curious Learners

Pupils who grasp concepts rapidly are challenged through being offered rich and sophisticated problems before any acceleration. We use a range of pictorial representations and methods to enable our pupils to think deeply and make connections between different areas of Maths.

Respectful Citizens

Pupils regularly have the opportunity to discuss different methods, ideas and perceptions. They are encouraged to see mistakes as an opportunity to explore misconceptions. Pupils will draw upon representations to support their thinking and be prepared to articulate, justify and explain this thinking.

Aspirational Individuals

Pupils are encouraged to partake in structured, independent study outside of the classroom using high quality online learning tools.

Mathematical competency will support all future aspirations and open the door to further education and employment.

Motivated Achievers

At KS4, some pupils will be exposed to ideas and concepts that go beyond GCSE. Selected pupils will also have the opportunity to study the Further Maths qualification.

We provide enrichment groups at KS3 and KS4 and pupils are entered into local and national competitions.

The Key concepts that run through Mathematics:

Number sense is the first mathematical skill and forms the foundation of the other areas. We look at properties of numbers and being able to calculate.	Algebra is a generalised form of arithmetic that requires a deep understanding of number. This involves manipulation of expressions and equations	Geometry is the study of shape, size, and position of figures and their properties in space.	Ratio & Proportion is a way of comparing two or more quantities. Multiplicative reasoning is a fundamental component in many other areas of Maths.	Probability uses Mathematical concepts to assign a numerical value to the likelihood of an event occurring.	Statistics is a branch of Mathematics concerned with organisation and analysis of data.