

Parkside House School

KS3/4 Maths Curriculum Statement

Intent

Why do we teach this? Why do we teach it in the way we do?

Mathematics is an essential skill in life and is at the heart of every day decision making. At Parkside House School, we are committed to developing pupils' passion for Mathematics, as well as an appreciation of the beauty and power of mathematical reasoning. It is our aim to support every student to achieve his or her potential and develop a deep understanding of Mathematics.

We will develop key characteristics in students so they become:

- **Fluent** in the fundamentals of mathematics, through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- **Self-managers and critical** thinkers who reason mathematically. Students can independently investigate problems; they can propose mathematical relationships and prove them.
- **Independent enquirers and effective participators** who 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
- **Confident** in their ability to solve problems in all areas of Mathematics, including Number, Algebra, Ratio, Proportion, Rates of change, Statistics and Probability

Implementation

What do we teach? What does this look like?

The Key Stage 3/4 curriculum has been designed to secure and deepen pupils understanding and confidence. Lessons are themed by topic and pupils are expected to apply mathematical reasoning in real-life contexts throughout the curriculum. The Key Stage 3 curriculum covers all the content required to achieve an Entry Level Certificate, so by year 9, all those pupils who are able to, will be entered for this qualification. In order to give pupils the best chance of achieving well in this subject, pupils are then split at Key Stage 4. Some pupils will remain on the Entry Level route, whilst others will look to further their qualifications. This could be the Edexcel Functional Skills Level 1 and Level 2 or AQA GCSE. For those students studying the Functional Skills, there is the opportunity to sit this in year 10, offering the flexibility of resitting in year 11, or continuing their studies further.

Impact

What will this look like? By the time children leave our school they will:

At Parkside House School, we want to ensure all pupils leave with a Maths qualification appropriate to their level of study. In year 9 pupils can gain an Entry Level Certificate qualification. By year 10, pupils will have had the opportunity to extend their learning and gain a higher grade, or a qualification such as the Edexcel Functional Skills Level 1 and Level 2. For those pupils who are able, in year 11, they will sit the AQA GCSE exam. There will also be opportunities for pupils to resit and improve grades. This is because our pupils often need multiple attempts to gain the qualification of which they are able, and learn how to manage examination pressures.

For all pupils, the curriculum will include improvement in their **fluency** in the fundamentals of Mathematics, the **skills to solve problems** and the ability to **reason**, so that they are successful in their next stage.