



Mathematics Curriculum @ Oasis Brightstowe

When you learn mathematics you learn the skills to solve any conundrum which you may face, it is a necessity for success.

Our curriculum gift for learners:

We aim to create inquisitive problem solvers and creative thinkers armed with a deep understanding of mathematical concepts. They will be able to classify an unseen situation, recall associated knowledge and apply it articulately to overcome a problem. They will have the independence and confidence to engage in the face of the fear of failure.

Our Maths Curriculum is designed in conjunction with Mathematics Mastery. This means that pupils are given a “thorough understanding of mathematical concepts, rather than a set of techniques or routines to get to the right answer” (EEF). We want our students to be curious learners who can apply their knowledge and skills to the real world. We enable them with the powerful knowledge that allows them to acquire fluency in crucial mathematical procedures and means they can master and retain key concepts which in turn will result in all students fulfilling their academic potential in maths

Curriculum design:

The Mathematics Curriculum is carefully planned so that core mathematical skills, knowledge and understanding are developed over time. Mathematical knowledge is understood and built on cumulatively, and also in the context of applying this knowledge to develop skills. These core mathematical skills build on the main concepts of the Primary curriculum, and exceed the objectives of the Maths national curriculum for KS3/4. We consider ‘where the maths goes’ after GCSE so that our pupils are prepared for post 16 study.

The curriculum builds through the consideration of the concepts and principles of fluency, representation, language, notation, mathematical thinking, reasoning, problem-solving and conceptual understanding.

Our 5 year scheme of learning builds and reinforces key content through interleaved practice and application across all topics. The use of multiple representations from the concrete, pictorial and abstract enable the students to develop their conceptual understanding and build upon their schemas. As the curriculum build throughout the five years, topics are revisited in more formal manners and students continue to develop their reasoning, fluency, problem solving and conceptual understand so as to enable them to succeed at GCSE level.

An ambitious curriculum for all learners:

A Mathematics Curriculum based upon the Mathematics Mastery principles enables for success at all learning levels. We believe that every child can achieve at mathematics, given the appropriate learning experiences, both within and outside the classroom. Our curriculum map reflects our high expectations for every child, entitling them to master the key mathematical content. All students learn the same content and skills. We value depth in understanding over breadth, setting students up for success at GCSE by building an understanding of the concepts rather than just a regurgitation of the processes.

The use of Key Knowledge for all learners supports all students to retain the vital information whilst the linking of key concepts and topics allows for stretch and challenge for the HPA learner.