

Curriculum Statement for Mathematics

Curriculum aims

At Vanguard School the Mathematics curriculum is designed with a clear purpose to:

- Implement the school vision of British values and the Vanguard Values
- Set challenging yet achievable targets, setting high expectations for all pupils in class and around the school
- Offer a variety of approaches to teaching and learning, to engage and motivate pupils and demand their active participation
- Ensure all students, regardless of their ability, make progress between key stages 3 and 4
- Explore enrichment opportunities outside the curriculum to enhance pupils' enjoyment of mathematics
- Develop their character, including resilience, confidence and independence, so that they contribute positively to the life of the school, their local community and the wider environment

How we teach Mathematics

We believe that students deserve a creative and ambitious mathematics curriculum, rich in skills and knowledge, which ignites curiosity and prepares them well for everyday life and future employment.

Our mastery approach to the teaching of mathematics for understanding:

- A spiral curriculum basing future teaching on the building blocks taught previously
- Concepts that are broken down into small connected and structured steps enabling application to a range of contexts
- Variation to develop deep and holistic understanding
- Procedural fluency and repetition of key facts to free up working memory
- Manipulatives and multiple representations used to build and scaffold learning
- Marking and feedback that informs planning and addresses misconceptions promptly
- Questioning planned intelligently
- Interventions that are timely, planned and effective from trust wide unified assessments
- Students who see error as a learning opportunity and are resilient in their learning

At Vanguard we also use several online platforms that assist in learning. All students have access to MyMaths, an interactive online teaching and homework subscription website for schools that builds pupil engagement and consolidates maths knowledge. MyMaths runs alongside White Rose who

provides the framework of the mathematics curriculum and Kerboodle, which has online textbooks with videos and assessment materials

Specific resources and schemes

At Vanguard school we support the teaching of Mathematics with the use of:

- White Rose Mathematics
- MyMaths
- Kerboodle
- Century Tech
- Educake
- AQA CGP workbooks and revision guides

Maths in the real world: learners have access to Maths-based school day trips, tours & field trips to London, giving students the chance to discover the mathematics throughout the capital city

Qualifications

By the end of Year 13, when our pupils leave Vanguard School, they will have been supported to engage in and achieve recognised qualifications, namely GCSE or Functional Skills at Level 2. This will allow them to take the next steps in Sixth form, college or apprenticeships.

Current qualifications for this subject include:

- Pearson Mathematics Entry Level 1-3
- Pearson Mathematics Functional Skills Level 1
- Pearson Mathematics Functional Skills Level 2
- AQA GCSE Mathematics (8300)