

## **Mathematics Curriculum Intent**

As a department we aim to promote a challenging curriculum to all our students that delivers depth and breadth in maths. We aim to enable students to become knowledgeable, flexible and resourceful mathematicians.

	OHA Curriculum Intent	Mathematics Intent
Broad and balanced	All students have the opportunity to study all subjects on the National Curriculum including PSHE and SRE. This should allow all students to develop emotionally, intellectually and creatively and provide an opportunity to follow their own journey towards their own aspiration.	Mathematics is an interconnected to be able to move fluently betwee mathematical ideas. The program necessity, organised into apparen pupils should make rich connection to develop fluency, mathematical solving increasingly sophisticated apply their mathematical knowled subjects. The expectation is that the major the programmes of study at broa decisions about when to progress the security of pupils' understance progress to the next stage. Pupils should be challenged through beils sophisticated problems before an content. Those who are not suffic material should consolidate their through additional practice, before

d subject in which pupils need een representations of nmes of study are, by ntly distinct domains, but ons across mathematical ideas I reasoning and competence in I problems. They should also dge to science and other

rity of pupils will move through dly the same pace. However, s should always be based on ding and their readiness to who grasp concepts rapidly ing offered rich and hy acceleration through new ciently fluent with earlier understanding, including re moving on.

Preparation for the future	We believe that all students should experience a solid foundation at Key Stage 3 and therefore all students follow a three-year Key Stage 3. This ensures that OHA students have the skills, knowledge and understanding to have a successful Key Stage 4 and open doors to both Post-16 study and future employment.	In addition to the obvious intention more advanced mathematical stu- prepares students for future learn improves the cognitive ability in g such, is essential for their person mathematics conditions the brain neural pathways that make the b things. Mathematical study enhan- intelligence and supports the life- creating a framework in the brain developing the ability to solve an the mind to work on unfamiliar ta developing the sequencing skills of results or logical conclusions, pro thinking and deciphering complex arrive at an accurate answer and error to integrate different princi- conclusion.
High aspirations:	We have designed a curriculum which is enjoyable, ambitious and motivates all students including SEND and the most disadvantaged towards lifelong learning.	We offer an aspirational curriculu curriculum but also offers additio are applicable to life after second students are further supported by lower ability students.
Promotes the Academy values	Our students will demonstrate Respect, Resilience and responsibility throughout their daily life at the academy.	All values are promoted and adhe conversations are conducted resp methods and skills needed to app problem in order to promote resi responsible for their own learning environment for all to learn.

ion of preparing students for udies, mathematics also ning in other disciplines and general of students and, as al development. The study of n to see connections and builds brain stronger for all other nces students' general -long learning of students by: n for systematic thinking, id analyse problems, stretching asks with confidence, critical to arriving at accurate moting caution and care in x mathematical problems to learning through trial and iples to arrive at a logical

um which follows the national onal knowledge and skills that dary education. Our SEND by the use of guidance for our

ered to in each lesson. All pectfully. Students are taught proach any mathematical ilience. All students are g as well as fostering an

Rich knowledge based	Students will leave OHA following five years of	Students are equipped to leave the
	study, fully prepared for a variety of ambitious	knowledge and skills to become a
	destinations. By providing students with	know and understand key concep
	extended and independent learning, our	mathematical language. They will
	students will be ready to embrace the wider	variety of topics which will enable
	world around them.	skills further at a higher standard
		to day life.

he academy with the an expert mathematician, ots and confidently use I have experience in a broad e them to continue to develop and also skills needed for day